

BALTIMORE, OCTOBER 29, 1887.

IAS. SMITH & CO. MANUFACTURERS', MILL and ENGINEERS'

EUREKA PACKING

Works, 413 to 421 Race St., Cor. of Crown.

SUPPLIES

Steam, Hydraulic and Locomotive Packing, Send for Prices.

Office & Store, 137 Market St., Philadelphia. OIROULARS AND PRIOE-LISTS MAILED UPON APPLICATION.

lling Outfits for Flour and Meal.

WE MAKE ROLLS AND PORTABLE MILLS COMPLETE.

Manufactory Established in 1851.

Pamphlets with Prices Malled Free.

NORDYKE & MARMON CO., INDIANAPOLIS, IND.

MORSE ELEVATOR WORKS.

WILLIAMS & CO\_CLEM & MOREE

Manufacturers and Builders of HYDRAULIC STAM, ELEVATORS | With most approved Safety Devices.

BILT and Hand-Power, PASSENGER and FREIGHT | Dumb-Waiters, Automatic Hatch-Doers, &c.

Office: 411 CHERRY STREET,

Works: FRANKFORD AVE., WILDEY & SHACKANAKON STS. | PHILADELPHIA, PA.

——Branch Office, 108 Liberty Street, NEW YORK.——

FACTS ABOUT THE NEW YORK AQUEDUCT TUNNEL.

When work began on the NEW CROTON AQUEDUCT, INGERSOLL "STRAIGHT LINE" AIR COMPRESSORS AND INGERSOLL DRILLS were adopted on about one-half the line. As the wrogressed, the Engineer's Tables showed that the progress on the sections using INGERSOLL MACHINERY AVERAGED HIGHER THAN ALL OTHERS. This induced contractors on the other section us in INGERSOLL MACHINERY. Section "A," under Rodgers & Farrell, the first section north of Harlem River, was run for nearly a year with other machinery. In August, 1885, one-half the section was completed February 2d, 1889, WITH INGERSOLL DRILLS LABOLL DRILLS, which were so satisfactory that ALL OTHER DRILLS were thrown out, and the section was completed February 2d, 1889, WITH INGERSOLL DRILLS LABOLL DRILLS AS A LL OTHER DRILLS WERE ALL DRILLS HAVE COMPETED IN MONTHLY RECORDS AVERAGED 218 FEET 82 FEET in one week, and 365 FEET 6 INCHES MADE IN 36 DAYS, ALL FULL SECTION TUNNEL ON THE LINE. NATURE OF ROCK HARD GRANITE GNEISS.

INGERSOLL DRILLS HAVE COMPETED IN NO PRIZE COMPETITIONS ON THE AQUEDUCT.

Ingersoll Drills are now driving four-fifths of the aqueduct, and are used in the following shafts: Smith & Brown, Croton Dam Section, Ingersoll Drills and Air Compressors exclusively (175 Drills, 175 Air Compressors). Shafts 18 A and 18 B, McLaughlin & Relly, 14 Ingersoll Drills. Shaft 2d, 8 Ingersoll Drills. Shaft 16, 6 Ingersoll Drills. Shaft 16, 6 Ingersoll Drills. Shaft 17, 6 Ingersoll Drills. Shaft 18, 9 Ingersoll Drills. Shaft 18, 18 Ingersoll Drills. Shaft 18, 18

INGERSOLL ROCK DRILL CO., 10 Park Place, New York City.



"PERFECTION IN HOUSE HEATING BY STEAM.

GORTON & LIDGERWOOD CO., 96 LIBERTY STREET, NEW YORK.

21 S. CHARLES STREET, BALTIMORE,

LEATHER AND RUBBER BELTING, **Cotton** and

LATHES, PLANERS, DRILLS,

Write for New Machinery Catalogue. Engines, Shapers, Gear Cutters, &c.





OVER 300,000 NOW IN USE. THE LIGHTEST, STRONGEST, BEST BALANCED and CHEAPEST in the WORLD.

Shafting, Hangers, Couplings, &c.

MEDART PATENT PULLEY CO., Stores: 99 to 101 W. Second St., Cincinnati. 44 & 45 S. Canal St., Cab.

FRANK W. SWETT, MANUFACTURER OF BAND SAWS, SO SOUTH CANAL ST. EVERY BLADE WARRANTED

THE

# Hercules Water Wheel

+ IN THE SOUTH. +

#### WHAT SOUTHERN USERS SAY OF THE HERCULES.

There is probably no higher authority in the South on water wheels than Mr. John Hill, civil and mechanical engineer, of the great Eagle & Phenix Cotton Mills, at Columbus, Ga. Read what he says of the Hercules Wheel.

The Best Wheel We Have.

JOHN HILL, CIVIL AND MECHANICAL ENGINEER, Reference—Eagle & Phenix Mfg. Co.

COLUMBUS, GA., April 30, 1887.

COLUMBUS, GA., April 30, 1887.

As to my opinion of the Hercules Wheel, will say: In our mill (the Eagle & Phœnix) we have twenty-one (21) water wheels of various kinds, three of them being Hercules. I regard the Hercules as being by far the best wheel of any we have. It is the best in workmanship, abeence from repairs, large per cent. in power, and in general satisfactory results. I know of no wheel its equal. At Holyoke, testing flume a few weeks since, I personally witnessed a test of a Hercules of the ordinary construction, which gave 83 96-100 per cent. of efficiency. Yours truly,

JOHN HILL.

Cannot Speak too Highly of the Hercules Wheel.

JAMES RIDDLE, SON & CO.

KENTMERE, DEL., April 27, 1887.

Kentmere, Del., April 27, 1887.

In reply to your inquiry as to the working of a "Hercules Water Wheel" now running at our mills, would say that we put in nearly two years ago a 39-inch Hercules Wheel, running under a 141-foot head. It is driving up to full regular speed three hundred and three heavy looms, with only half gate. We are about to enlarge the weave mill and add three hundred more looms, which will be driven by the same wheel. We cannot speak too highly of the Hercules. It has absolutely run without cost or derangement since it started, and has given eminent satisfaction in every way.

Yours truly,

JAMES RIDDLE, SON & CO.

Perfectly Satisfactory in Every Way.

PORTER WOOLEN MILL.
J. H. Porter, President. J. W. Robertson, Gen. Manager.

six years since, and the other in 1883, and think so highly of the wheel that I shall use another in cotton mill this company is now constructing. Neither of the wheels alluded to have given the slightest trouble, and their working has been perfectly satisfactory in every way.

Yours truly,

J. W. ROBERTSON, Gen. Man.

The Hercules Wheels Have Given Perfect Satisfaction.

ROSWELL MANUFACTURING CO.

Sheetings, Shirtings, Checks, Yarns, &c.

ROSWELL, COBB COUNTY, GA., April 29, 1887.

In answer to yours of 25th inst., asking our opinion of the Hercules Wheel, will say our experience is as follows: In our new mill, built about four (4) years ago, we put a 30-inch Hercules Wheel, under a 21-foot head of water. It has given such satisfaction running this (5,000 five thousand spindle mill, that hast summer, when we were compelled to put in a new wheel at our old mill, running 7,000 spindles, looms, twisters, &c., we put in a 36-inch Hercules Wheel, under a 27-foot head of water. All I can say is we have surplus power in both mills, have lost no time by any defect of wheels, and if we were putting up any more mills, would use the Hercules Wheel. They have given us perfect satisfaction.

Yours respectfully,

F. J. MINHINNETT, Prest.

A Good Wheel, and Has Given Good Satisfaction.

PEE DEE MANUFACTURING CO.
Plaids and Warps.

Plaids and Warps.

ROCKINGHAM, N. C., April 30, 1887.

We have been using the Hercules Water Wheel for more than six years. Our superintendent says it is a good wheel, has given good satisfaction, and its performance is equal to the claims of the maker. We have a head of 17 feet. Our wheel has a diameter of 39 inches. Under this water pressure the wheel has moved 4,000 spindles and the needed preparation, and 164 plaid looms. The above includes the dye house, machine shop and all other machinery which we employ.

Very respectfully,

WALTER L. STEELE, Prest.

Best Wheels I Have Ever Seen.

MARIETTA PAPER MANUFACTURING CO.,

CLARKSVILLE, GA., April 29, 1887.

In reply to enquiry as to my opinion of the Hercules urbine Water Wheel, say: I have put in two, one about four Hercules Water Wheels, two 12-inch, one 24-icnh,

and one 30-inch. They have given me perfect satisfaction, and I think that they are the best wheels that I have ever seen.

Yours truly,
S. A. ANDERSON.

Has Never Given the Slightest Trouble.

PACOLET MANUFACTURING CO.

Jno. H. Montgomery, Prest. and Treas

PACOLET, S. C., April 29, 1887.
Replying to yours of 25th, would say: We have a 54inch Hercules Water Wheel running, under 20-foot head,
12,000 spindles and 328 looms, with other necessary
machinery. Has been running about three and a-half
years, and has never given us the slightest trouble; not
an hour's stoppage during the whole time.

Very truly yours

Very truly yours, JNO. H. MONTGOMERY, Pres. and Treas

Well Satisfied With It.

WM. J. RUSSELL, Manager Princeton Factory

Manager Princeton Factory.

ATHENS, GA., April 28, 1887.

I have used the "Hercules" wheel since 1881, and am so well satisfied with it that I should not purchase any other it in want of a first-class wheel. It does all the manufacturers claim for it.

Yours truly,

WM. J. RUSSELL, Manager.

Has Given Entire Satisfaction.

HOLCUMB'S ROCK, BEDFORD Co., VA., April 28, 1887.

The Hercules Wheel has given entire satisfaction.

Very respectfully,

J. A. HARRIS & CO.

Unhesitatingly Say its the BOSS Wheel.

BUZELA, GA.. April 29, 1887.

I have been using a 21-inch "Hercules Water Wheel" since August 1880, and unhesitatingly say it is the BOSS wheel. It has performed with utmost satisfaction, and given more power than the makers claim, using water with more economy than any wheel I ever knew. T. W. G. Inglett, Esq., who has put up two "Hercules" for parties, says "it can't be beat."

Very respectfully,

BRAD. MERRY.

# THE HERCULES



Gives the Most Power for its Size and the Highest Average Percentage from Full to One-Half Gate of Any Wheel Ever Made.

If you want to buy a new Water Wheel, if your old wheel does not give satisfaction, if you would like to know just how perfect a Water Wheel can be made, or if you are in any way interested in Water Wheels it will pay you to write for Catalogue No. 3 to the

HOLYOKE MACHINE CO., Worcester, Mass.

Rubber Belting with DECOTE METALLE BUSINESS SURFACE.



VULCANITE

Saw Gummer DOES NOT CASE HARDEN.

DURABLE. SAFE AND STRONG.



Steam and Water Hose.

EUSBER "TEST" HOSE, made of Vulcanised Para Rubber rbolized Duck. Cotton "4CA BLE" HOSE. Circular, Woven, Seamless, Astiosptic, use of Steam and Hand Fire Engines, Force Pumps, Mills, Factories, rs and Brewers' use.

Patent Elastic Rubber Back Sonare Packing

New York Belting and Packing Co. J. H. CHEEVER, Treas.

Sole Mfrs., I5 PARK ROW, NEW YORK.



### BOILER and PIPE COVERINGS



FIRE PROOF Light and Cheap.

EASY TO APPLY.

MINERS and MANUFACTURERS, BRAIDED PACKING, MILL BOA SHEATHING and SPECIALTIES.

CHALMERS-SPENCE CO., 419-425 Eighth Street, New York. 34 S. Second Street, PHILA.
10 Pearl St., Boston, Mass. 144 & 146 Lake St., Chicago, Illa

### LIAM TAYLOR & SONS.

COLUMBIAN IRON WORKS.

23 to 39 Adams Street, BROOKLYN, N. Y.

## Oil Works Machinery,

HYDROSTATIC PRESSES and GENERAL MACHINERY, Engines, Boilers, Castings, and Machine Making.

# IANTINE SHOES and D



For Stamp Mills.

C. P. HAUGHIAN, V. Pres.

BROOKLYN, N. Y.



M. T. Davidson Steam Pump.

Simple, EFFICIENT. Reliable, FOR ALL

PURPOSES

DUTIES

SINGLE OR Duplex. COMPOUND

Pumping

DAVIDSON STEAM PUMP CO., 77 Liberty St., NEW YORK.

# SACO WATER-POWER MACHINE SHO

BIDDEFORD, MAINE,

Manufacturers of

# COTTON \* MACHINERY

OF THE MOST IMPROVED PATTERNS.

Cylinders, 36x36 and 36x30, with 20 tops and Self-Strippers and Railway Troughs. Union Cards, with workers, strippers and tops.

### FINISHER RAILWAY HEADS.

DRAWING FRAMES, ANY LENGTH, WITH 3, 4 AND 5 LINES OF STEEL ROLLERS. English Slubbers and Fly Frames, With Long or Short Bolsters.

-BOBBINS-12x6, 11x5\, 10x5, 9x4\, 8x4, 7x3\, 6x3, and 5x9\.

RING SPINNING FRAMES, 2, 13, 18 AND 14 INCH RINGS.

### TWISTERS.

Parr, Sharp and Roberts' and Higgins' Pattern, MULES. SELF-ACTING

14, 1 5-16, and 11-inch Gauge.

S. W. RICHARDSON, Treasurer,

No. 1 Simmons Building, Boston.

JAS. H. McMULLAN, Agent,

Biddeford, Maine.

# Vm. Chisholm & Sons F. W. DEVOE & CO.

SOLID CAST STEEL

\*SC00PS.\*

AND COAL SHOVELS

Cleveland, Ohio.

These goods are the acknowledged standard wherever there is hard work to be done, and are recommended for RAILROAD, MINING, FURNACE and CONTRACTORS' USE IN

Send for Catalogue





# **Kaestner Patent Friction Clutches**

A Perfect Friction Clutch.

SIMPLE and DURABLE.





Sole Builders.



### MACHINISTS and FOUNDERS

And Builders of General and Special Machinery.

303 to 311 S. Canal St.

OFFICES: Fulton Street, Corner William, NEW YORK.

If you think of doing any painting this spring, we wish to call your attention to the fact that we guarantee our ready-mixed paints to be made only of pure linseed oil, and the most permanent pigments. They are not "Chemical," 'Rubber," "Patent," or "Fire-Proof."

We use no secret or patent method immanufacturing them, by which benzine and water are made to serve the purpose of purp

the purpose of pure linseed oil.

Samples of Fifty Desirable Shades for consumers on req

## ROOF

Fine Varnishes, Artists' Materials. PAINTERS' SUPPLIES OF ALL KINDS.

→ Mathematical Instruments and Engineers' Goods. ◆

Catalogues of our different departments to responsible parties.

Cor. Fulton and William Sts. I

COFFIN. DEVOE & CO.

NEW YORK.

176 Randolph Street.

CHICAGO.

### BROWN & KING, MANUFACTURERS COTTON MILL SPECIALTIES.

Roller Covering, Loom Pickers and Strapping.

Dealers in Roller Coverers, Stock and Tools; Cotton and Woolen Mill Supplies.

Full Line "Hick's" United States Standard Ring Travelers, Mill Wire Goods
Spring Cotters, Belt Hooks, Lacing, &c., kept constantly on hand.
Wrought Iron Pipe Fittings and Brass Goods. Southern Agents for the celebrated
"B. C. & D. Oak Tanned Patent Lap Belting, Galvin Compound Wedge Gate Valve,
Imhauser's Watchman Time Detectors, Diamond Emery Wheel Machine Co., &c.

Office and Salesroom No. 62 S. Broad Street, ATLANTA, GA.





\* FIRE BRICK, \* Standard Sewer Pipe AND CULVERT PIPE.

Double Strength, with Improved Sockets. GHATTANOOGA, TENN.

### B. W. PAYNE & SONS

Box 1018, ELMIRA. N. Y.







Vertical, Stationary and Portable

## AND

e make the best and most reliable high-speed Automatic Engine Plants. We guarantee the "Payne Automatic" to turnish same tling Engine at one-third to one-half less fuel and water, doing the send for our catalogue and prices before ordering elsewhere.



Iron Works ernon



C. & G. COOPER & CO., Proprietors, CORLISS Automatic Cut-Off ENGINES,

50 to 1,000 Horse-Power. Horizontal and Verti-cal, Condensing and Compound. Latest de-signs and most approved construction.

Slide Valve Stationary Engines, all Sizes, Extra Heavy, with Girder or Box Frame. Portable Engines, Center and Side Crank,

6 to 40 horse-power.

Traction Fugines, 8 to 18 horse-power.

Saw Mills, Extra Heavy, Standard and Pony, with self receding Blocks and late improvements.

4-Tubular, Locomotive and Flue Bollers. Send for prices and description.

C. & C. COOPER & CO.



Automatic Cut-Off engines

Double Drum Derrick Engines. Single Drum Reversing Engines, suitable for Mines and Rapid Hoisting.

dence respectfully solicited.

Chandler & Taylor's STEAM ENGINES



Are Strong, Well-Built and Serviceable
Are designed for Heavy and Continuou
Work.
May be run at High Speed when desired
performing the duties of High Grad

performing the time.
Engines,
And are sold at the prices of ordinary
Engines,

For Prices and Descriptive Circulars, address

CHANDLER & TAYLOR INDIANAPOLIS, IND.

# → Engines and Boilers

From I to 500 horse-power; Portable and Stationary, Horizontal and Vertical. Boilers of plain tubular type, locomotive fire-box pattern, vertical and two-flue, steel or iron, as exact requirements, that you may obtain our estimate. Freight paid your station if desired.

W. E. DREW, Agent,

S. C. FORSAITH MACHINE CO., Machinery Dealers, Manchester, N. H.

Buy "THE NEW SOUTH." Handsomely Bound Manufacturers' Record Co., Publishers, Baltimore, Price, Price, Manufacturers' Record Co., Publishers,

FOR THE LOWEST-PRICED FIRST-CLASS

ADDRESS



Buffalo, N. Y.

Special stock sizes 5 to 50 H. P., both Stationary and Somi-Portable.

CORRESPONDENCE SOLICITED

# ENGINE CO. Erie, Pa.

Awarded THREE GOLD MEDALS by the World's Industrial and Cotton Centennial Exposition of New Orleans, La.



Manufacturers of Portable and Stationary Engines and Bollers, including the well known Skinner Portable return flue boiler. Send for ILLUSTRATED CATALOGUE AND PRICES

WORKS. HAMILTON



WILLIAM TOD & CO.

YOUNGSTOWN, OHIO,

### PORTER-HAMILTON ENGINE

50 to 500 Horse-Power. Modern design. Plain, Strong, EFFECTIVE, ECONOMICAL.
COSTS LESS THAN ANY OTHER FIRST-CLASS ENGINE. Send for Photograph.

### BLAST FURNACE ENGINES ON HAND.

ALSO A STOCK OF OTHER ENGINES (our make.)

Prices and description on application.

McIntosh, Seymour & Co., Auburn, N. Y.



Automatic Cut-off Engines

5 to 300 Horse Power

nomy in Fuel Consumption, lose Regulation, Great Durability and Simplicity, Perfect Workmanship and Besign.

Terrect workmanship and Deeign.
Unrivalled in these qualities, our engines are suitble for all purposes, supecially where high speed and
formula service are sequired, as in electric-light plants,
tilling mills, etc. Send for Illustrated Catalogue.

Polling mills, etc. Send for Indistrator Assaugue.

9 SELLIA G. AGENTS:

Young & Thomas, 4s Cordandt St., New York Cisy.
Harian Page, 143 & 145 N. 3d St., Philadelphia, Pa.
Smith & Courtney, 1439 Main St., Richmond, Va.

WM.B. POLLOCK & CO

MAHONING BOILER WORKS
PIPES, STACKS, BEAMS, ROOF TRUSSES
BLAST FURNACES & ROLLING MILL WORK Youngstown Ohio

### JARVIS PATENT FURNACE



FOR SETTING STEAM BOILERS.

Economy of Fuel, with increased capacity of Steam rer. Like the Siemeens Process of Haking el, it utilizes the waste gases with hot air on top of fire. Will burn all kinds of waste fuel without a t, including Slack Coal, Sawdust, Logwood Chips, Bend for Circulars.

Jarvis Engineering Co., F. UPTON, Treas. and Gen'i Manager, 51 Oliver St., Boston, Hass.

Ragie & Phenix Mfg. Company, Columbus, Ga. Anniston Mfg. Co., Anniston Als. J. P. King Mfg. Co., Augusta, Ga. Rose Mining Co., Charleston, S. C. Maryland Pavement Co., Baltimore, Md. Brush Electric Light Co., Baltimore, Md. Bitrick, Matoaca and Battersea Mfg. (1987).

Graniteville Mfg. Co., Graniteville, S. C., Charleston Bagging Co., Charleston, B. C., P. H. Mayo & Bros., Richmond, Va., Phosphate Mining Co., Beaufort, S. C., Brush Swan Electric Light Co., Norfolk, Va. Columbus See & Refrigurator Co., Columbus See & Refrigurator Co., Columbus Ge & Refrigurator Co., Lenoir, Manufacturing Co., Lenoir, Bast Tennessee.

ouse Mill, Graniteville, S. C. Sicon Electric Light Co., Charl



# The VICTOR TURBIN

Possesses more than Double the Capacity of other Water Wheels of Bise of Wheel same diameter, and has produced the Best Results on Record, as shown in the Following Tests at Holvoka Testing Finms: 17.96 36.35 18.21 49.00 in the Following Tests at Holyoke Testing Flume:

### WITH PROPORTIONATELY HIGH EFFICIENCY AT PART-GATE.

Such results, together with its nicely-working gate, and simple, strong and durable construction, should favorably recommend it to the attention of ALL discriminating purchasers. These wheels are of very Superior Workmanship and Finish, and of the Best Material. We also continue to manufacture and sell at very low prices the

### ECLIPSE DOUBLE TURBINE,

So long and favorably known. State your requirements and send for Catalogue to the

### STILWELL & BIERCE MFG. COMPANY

DAYTON, OHIO, U.S. A.

# ENGINES

### FOR SALE

Six 91/2 x 121/2 Automatic.

Two 91/2 x 121/2 Plain Slide Valve.

Six 61/2 x 81/2 Automatic; also,

One 8 x 9 Vertical, second hand.

One 8 x 10 Vertical, second hand.

One 6 horse-power Baxter.

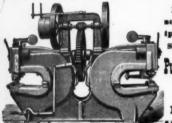
One 6 horse-power Taylor Portable.

Address

## Progress Engine & Machine Works.

SUMMERFIELD, BALTIMORE CO., MD.

## THE LONG & ALLSTATTER CO, HAMILTON, OHIO.



Heavy Double Machine

Double, Single, Angle-Bar, Gang, Horiiontal, Twin, Boiler, Spi eing, Gate, Multiple, BELT and

STEAM-DRIVEN

unches and Shears. Over 300 sizes.

ALSO. Power Cushioned

HAMMER.



Heavy Single Machine

Largest Stock. Latest Improvements. Fullest Line.



ashing Machines, Ironing Machines, Contrifugal Machines, Mangles, Wringers, etc. BOILERS AND ENGINES.

Hotels and Public Institutions A SPECIALTY.

The A. M. DOLPH CO.

chicago, ILL

Cor. 9th St. and Freeman Ave, CINCINNATI, 6.

IS THE FOREMOST EXPONENT OF THE INDUSTRIAL INTERESTS OF THE SOUTH.

# -Speed Traveling Cranes

B are now prepared to build HIGH-SPEED POWER TRAVELING CRANES
for any capacity of load, any length of runway and any width of span, with one
or two trolleys on the bridge. These trolleys to work either slow or fast, together
or independently, in like or in opposite directions, horizontally or vertically,
the bridge can be traversing slow or fast at the same time in either direction. The
of bridge on runway are 100 feet and 200 feet per minute; the species of trolbridge are 50 feet and 100 feet per minute, and there are four hoising speeds of
20 and 40 feet per minute; all can be varied quickly, without the least shook or
om zero to maximum or to any intermediate speed. The lead is always automatsustained, thus avoiding absolutely the great danger and anxiety
h are inseparable from the use of those Cranes which require the
ster to apply the brake. We have had one of these Cranes of 30 tons capacity in
nt use in our foundry for nearly two years, and we offer them with full confidence for
eatest range of service. We invite the correspondence of parties interested in the
t.

WM. SELLERS & CO. Incorporated, Philadelphia, Pa.:



336, 338, 340, 342 North Street, BALTIMORE, MD.

### MANUFACT SPECIAL MACHINERY,

team Engines, Shafting, Hangers, Pulleys, Couplings, Etc., Etc.

ole Manufacturers of Warfield's Green Corn Cutter,

Sole Manufacturers of For Cutting Green Corn from the Cob or Canning.

The Most Complete Line of Patented Machinery for Fruit, Vegetable
and Cyster Packers' use in the United States, and the Largest Manufacturers
of the same.

# Build <sup>₹</sup> Repair Your Machinery



Engine Lathes, Planers, Chucking Lathes, Hand Lathes,

MACHINE TOOLS GENERALLY

LATHE&MORSETOOL CO.

Worcester, Mass., U. S. A.

# South Pittsburg Pipe Works.

CAST IRON GAS&WATER PIPE

South Pittsburg, Toun.

WARREN WOOD & CO. 115 Broadway, N. Y. EASTERN AGENTS.

### CHATTANOOGA FOUNDRY & PIPE WORKS.

M. LLEWELLYN, Secy. and Treas. DAVID GILES, Prest. C. B. IBESTER, Vice-Prest.



Also Castings and Patterns of Every Description made to order.

STEEL RAILS

#### PENNSYLVANIA

Standard Sections Light Sections Street Rails Fish Plates, Frogs, Switches

STEPHEN W. BALDWIN SALES AGENT

### STEEL COMPANY

50 to 80 lbs. per yard 16 " 45 " 30 " 88 " Bolts & Nuts, and Crossings.

> NO.2 WALL STREET NEW YORK N.Y.

16 lbs. Full Size.

### CLEVELAND WHEEL AND FOUNDRY WORKS.

-MANUFACTURERS OF-

Car, Engine, Truck and Tender Wheels, Machinery, Railroad and Rolling Castings. Also, CHILLED IRON RAILROAD FROGS, (Any Angle), AND STREET RAILROAD TURNOUTS.

Office, No. 20 Carter St., - - - CLEVELAND, O.

Portable Grinding Mills

French Buhr Stones

ESOPAS STONES.

MILL STONES.

MILL MACHINERY.

ENGINES, BOILERS, &c.

Full Flouring Mill Outfits.

Send for Catalogue. Address

MUNSON BROS.

BOX 905.

UTICA, N.Y.



# SWORMSTEDT

EASTERN AND SOUTE-ERN AGENTS FOR

The COLUMBUS

All MACHINERY sold at Manufacturers' Price, and fully guaranteed as rep-

Office and Warehouse, 11 S. Frederick Street. BALTIMORE, MD.



### Baltimore Mill Furnishing Works,

Manufacturers of
Mill Stones, Portable Mills, Pulleys,: Shafting,
and Mill Gearing. Import Bolting Cloths, and General Mill Furnishers.

B. F. STARR & CO.



### EMPIRE CITY PULVERIZING MILLS.

For Coffee, Ginger and other roots, Spices, Chemicals, &c. TO ANY DEGREE OF FINENE Also Grains of all kind, Ear Corn, Bear

J. B. WARING & SONS, 106 & 108 Liberty Street, M. Y.

Buy "THE NEW SOUTH."

## HOOPES & TOWNSEND.





### KEYSTONE BOILER RIVETS

Cold Punched, Chamfered, Trimmed and Drilled Square and Hexagon Nuts.

Finished and Case-Hardened Steel Hexagon Nuts. BRIDGE RODS and RIVETS.

uilders' IRON Work.

TANK and COOPERS' RIVETS. PHILADELPHIA, PA.



### The STANDARD STEEL

TSTANDARDE

Locomotive and Car

OTIS STEEL. Office, 220 S. Fourth Street,

Representatives:

J. B. BELGHER, Room s4, Aster House C/lices, New York City. OHE RESERVE & 60., Church & Rec-tor Streets, New York City, N. Y. tor Streets, New York City, successful to Streets, New York City, successful to Street, As a successful to Street, Louisville, Ky.

420. KIRSET & 00., 123 Central Ave., Cincinnati, O.

Ave., Cincinnati, O.
ARBERW WARKES, 707 N. ad St.,
St. Louis, Mo.
S. BERWER, 126 Lake St., Chicago,
L.
Laddi, 30 Oliver St., Boston
Mass.

B. HOLMES,



BUFFALO, N. Y.



STAVE, BARREL, KEG AND HOGSHEAD MACHINERY.

Manufacturers of Planers and Matchers, Surfacers, Timber Planers, Machines, Self-Feed Saw Tables, Moulders, Pony Planers, Etc.



SEND FOR PRICES.



### Veneer Machinery for Furniture Factories, Etc.



Rotary-Cutting Veneer Machines

Painesville, Ohio.

ESTABLISHED 1852.

IAMES OHLEN & SONS COLUMBUS, OHIO

CAPITAL STOCK \$125,000.00.

"STILL AHEAD AND BOUND TO WIN." •

The James Ohlen & Sons Saw Manufacturing Co.

Standard, Solid and Inserted Tooth Saws, Mill, Muley, Gang, Drag, Cross-Cut and Band Saws.

COLUMBUS, OHIO.

"I am running one of your Chisel-Tooth Saws. Have been working in saw mills for past e years, but never found a saw equal to yours. Please send me a catalogue. W. A. Williams. Wise & Nolson, Jonesboro, Ind., Feb. z, 1887, write: "The 64-in, gauge solid saw is ng splendid work; inclosed find draft for same. Make and ship us zs gauge, same hand as ser, soon as possible.

B. R. Edwards, Jacksonville, Fla., writes: "Saw received. Has been running steadily is not made one bad line. Draft inclosed.

The Above The Above Chara Characters of the control of the control of the Characters of t

and not made one bad line. Draft inclosed.

The Above Outs Show Our Champion Chisel-Tooth Saw.

It has been thoroughly tested on steam and friction feed, in all kinds of timber, and we uarantee to our patrons perfect satisfaction in every respect. Each set of teeth will cut from 20,000 feet. We advertise only practical possibilities, and stand by what we say, and guarantee that any saws bearing our trade mark (James Ohlen & Sons) are equal, if not perior, to any others in every respect, and will give satisfaction to those using them.

Write for Catalogue and mention this paper.

JAMES OHLEN&SONS COLUMBUS. OHIO

INCORPORATED 1848



FRANK & CO.

ACHINERY

Planing, Matching Moulding Tenoning. Boring, Shaping Carving, Eto

176 Terrace St., Buffalo, N.Y.

FULL LINE OF



SPECIAL DESIGNS IN

Re-saws, Planing Machines, Jointers, Band-Saws, Etc.

Send for Catalogue and Prices before purchasing tewhere. Mention this Paper.

SNIGGS & CO., - - Buffalo, N. Y.



### Wood-Working \* Machinery

Of the Latest and most Improved Designs for

Planing Mills, Furniture Factories, Chair Factories, Car and Agricultural Works, Carriage and Buggy Shops and

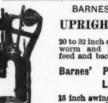
GENERAL WOOD WORKERS, MANUFACTURED BY

### THE EGAN CO.

(Successors to the CorJesman & Egan Co.)

Barnes' Water Emery Tool Grinder.

228 to 240 W. Front St. Cincinnati O., U. S.A. Thos. P. Egan, Pres. Ed. Ruthven, Sec. F. Danner, Sup.



BARNES' PATENT

### UPRIGHT DRILLS, Has no Pumps.

Barnes' Patent Engine Lathe,

15 inch swing, 6 foot or 8 foot bed.

It is as easily managed as a grindstone, and will give vastly better results. It will be sold subject to approval. These machines are made a specialty in our factory.

They have advantages not found in other machines in this line.

W. F. & JOHN BARNES' CO., No.221 Ruby St., Rockford, III.

No Valves.

No piping to supply it with water.

It has nothing to get out of order; is always ready for use.



Capacity 15,000 to CIRCULAR SAW MILLS planned and furnished.

ENGINES, 15 to 800 BOILERS OF BRIEFL BAND SAW MILLS, with Friction or Steam Feed.

STEARNS' Fractional Head Blocks, Edgers, Cut-Off Saws, Trimmers.

The Wilkin Pony Gang. No foundation. Capacity 30,000 to 40,000 feet of Flooring per day. The Wilkin Heavy Gang Saw Mill for large mills. Lath and Picket Mills, Bolters, Conveyers, &c.



the you want machinery for Staves, Heading, Shingles or Veneer Cutting, send for our catalogue "A." If you want Handle Machinery, send for catalogue "B." Please say where you saw this advertisement. Address

Lockport, N. Y

### CORDESMAN, MEYER&CO.



## Wood Working Machinery

OF EVERY DESCRIPTION.

Planing Mills, Furniture and Chair Fa Carriage, Wagon and Agricultural Works.

Write for our latest Catalogue and Price List. Correspond ence solicited.





W. Gogker, Lockport, n. y.

ANUFACTURER OF

also Inserted Tooth Cross-Cut Circular Saws for Shingle Mills a Specialty. Will do three times the work of any Butting or Drag Saw.

SHINGLE AND HEADING SAWS.

Orr's and Mixture's Gummers and Swages.

Send for Price-List.

ESTABLISHED 1845.



TOLAND & SON, Front & Low Streets, Baltimore.

# HOWARD & BULLOUGH'S

OPENERS, LAPPERS, REVOLVING FLAT CARDS, ELECTRIC STOP MOTION DRAWING FRAMES, SLUBBING, INTERMEDIATE,

BOVING AND FINE JACKS, (NEW PATTERNS 1886) ALL MADE BY TOOL WORK; EVERY PART EITHER

TURNED, MILLED OR PLANED, AND CONTAINING MANY PATENTED AND VALUABLE

IMPROVEMENTS. WARPERS, COPPER CYLINDER SLASHERS, (New Models.)

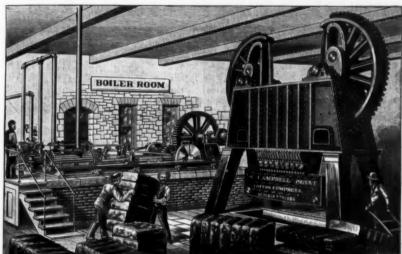
DILEV

SOLE IMPORTERS,



RILEY & GRAY, - - BOSTON, MASS

CARD CLOTHING, WOOLEN AND WORSTED MACHINERY, Etc., Etc.,



A. M. DOLPH, President, C. C. CAMPBELL, Vice-Pres't & Gen'l Man'gr. J. R. CLARK, Secretary. JOS. SHARP, Treasurer.

# Ecampbell Cotton Compress Co.

Sole Manufacturers of the

### **→CAMPBELL COTTON COMPRESS.**←

-Undoubtedly the Most Desirable Compress Made.

It is the cheapest to install, costing only half the price of other makes.

It is the cheapest to run, requiring least fuel, attention and repairs.

It is the only compress profitable for a small market, as it can be run on small lot at a profit, where other compresses could be operated only at a loss.

It is therefore the only compress profitable for the interior, as it will carn a good profit with 90,000 bales or less, while it has a capacity of 40,000 to 50,000 bales per season It will compress to a density of 25 or more pounds to the cubic foot. It is not up under the fullest guarantee.

Correspondence Solicited. Address

### The Campell Cotton Compress Co.

Offices, 59 and 61 Walnut Street,

CINCINNATI, O., U. S. A.

# Queen City Printing Ink Co.

CINCINNATI, OHIO.

THE INK QUEEN CITY PRINTING INK CO

MANUFACTURERS OF ALL DESCRIPTIONS OF

# INKS!

**≪Varnishes and Sizes**→

FOR PRINTERS' USE.

New York Office, · · · 194 William Street.

Philadelphia Ofice, · · 434 Walnut Street.

# SAVE FUEL.

Are you putting cold water into your boiler?

You can heat it boiling hot with the exhaust steam out of your engine.

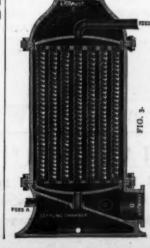
You would save TWENTY-FIVE PER CENT. of the fuel required to do the same work without a

Feed Water Heater.

Send for our catalogue on this subject.



D. A. TOMPKINS CO. Charlotte, N. C.



-THE WAINWRIGHT-

Exhaust Feed-Water Heater

IS CONSTRUCTED WITH

CORRUGATED TUBING,

Absorbs All Expansion and Contraction,

and automatically frees itself from "scale," gaining in strength and heating emplace over the ordinary tube.

THE WAINWRIGHT MFG. CO.

55 & 67 OLIVER ST. BOSTON, MASS.

SELLING AGENTS:

VEW YORK—F. B. Aspinwall, Manager, 93 Liberty Street. PHILADELPHIA—Fairbanks & Co., 701 Arch Street. PITTSBURGH—Fairbanks & Co., 302 Wood Street.

### The DEANE STEAM PUMP CO.

-- HOLYOKE, MASS .--

### STEAM \* PUMPING \* MACHINERY

OF EVERY VARIETY.

Send for New Catalogue No. 22



### The DEANE STEAM PUMP CO.

NEW YORK. BOSTON.

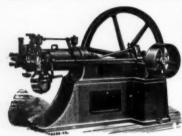
CHIGAGO.

PHILADELPHIA. ST. LOUIS.

Water

Works ENGINES

FOR THE SUPPLY OF CITIES AND TOWNS



# Over 18,000 in Use. Otto Gas Engine Consumption than ANY OTHER ENGINE.

Working Without Boiler, Steam, Coal, Ashes or Attendance.

Started instantly by a Match, it gives full power immediately. When stopped, all expense ceases, Guaranteed to Consume 25 to 75 Per Cent. less Gas than any other Gas Engine Doing the same Work.

No explosions, no fires nor cinders, no gauges, no pumps, no engineer or other attendant while running. Recommended by insurance companies, UNSURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Sizes: 1 to 25-Horse power. Branch Office, 130 Wash- OTTO GAS ENGINE WORKS, Schleicher, Schumm & Co. 33d & WALNUT STS.,

# →Draper's Automatic Sprinkler

No Solder to Melt. No Leak. Opens at a lower temperature than any other.

GEO. DRAPER & SONS, Telegraph Address and Railroad Station, Milford, Mass.

HOPEDALE, MASS.



# The York Ice and Refrigerating Machines York Mfg. Co.

ALEXANDER BROWN & SONS, ESTABLISHED DOMESTIC Banking Business.

Buy and sell Bills of Exchange on Great Britain, Ireland, and other foreign points. Issue Commercial and Travelers' Oredits in Sterling, Francs or Dollars, available in any part of the world. Make Telegraphic Transfers of Money between this and other countries. Make Collection BROWN BROTHERS & CO., New York, Philadelphia and Boston.

BROWN, SHIPLEY & CO., London and Liverpool.

### Washburn & Moen Worcester, Mass. MAKERS OF IRON AND STEEL







Iron, Steel and Copper Wire, Wire Rope, Barbed Wire.

### THE MANUFACTURERS' RECORD

is the most thorough, complete and authentic source of information on Southern industrial affairs in existence. The subscription price is only \$3.00 a year. Some of our subscribers think every issue is worth that much. Try it for a year Send in your subscription to-day. Don't wait until to-morrow; you may forget it.

### Manufacturers' Record.

MANUFACTURERS' RECORD CO.

J. W. Bigsby, Prest. R. H. Edmonds, Treas. Wm. H. Edmonds, Secty. & Manager.

R. H. EDMONDS, EDITOR.

---OFFICE.-

COR. EXCHANGE PLACE AND COMMERCE STREE

New York OFFICE: Telephone Building, 18 Cortlandt St.

SUBSCRIPTION \$3.00 A YEAR.

RALTIMORE, OCTOBER 29, 1887.

#### Protection Woman's Safeguard.

In no country on the face of the earth is woman held in as high regard as in the United States. In none is she so entirely a free agent, or the recipient of such tender and chivalric attention. Foreigners notice this with wonder; they cannot understand it. The humblest selfrespecting woman is environed by a public opinion that is her shield and her safeguard. The series of ovations to Mrs. Cleveland that have at tended every stage of the President's recent journey, were not merely in honor of her as "the first lady of the land," but had a higher significance. They expressed the profound conviction of the American people that the family is the unit of the republic, and that its continued progress and prosperity must, under God, depend in large measure upon the purity, refinement and womanly dignity of its mothers, wives and sisters. The beautiful wife of the President was for the moment the type of American womanhood. Whatever tends to exalt women, to enlarge their opportunities for usefulness and for the exercise of their natural gifts or acquired skill, helps by so much to sustain and increase their influence, while whatever tends to abase or degrade them reduces their power for good, and in equal ratio impairs the moral standard of the nation. There can be no dissent from these self evident propositions. They are immutable truths. Where then is the need of repeating them in the MANUFAC-TURERS' RECORD?

There is need to consider them, however, for were our free trade advocates to have their way, there would be brought upon the country conditions so entirely at variance with those now existing, that every family would sooner or later experience the baleful results. To know what would eventually befall the land we have only to study the condition of woman in those countries where the wages of the men are not enough "to keep the wolf from the door." This is so graphically described by Mr. Robert P. Porter in his Free Trade Folly that we quote his testimony entire. Mr. Porter says:

In Europe the degradation of woman is complete. I have seen her around the pit mouth, at the forge, and barefooted in the European and American labor.

brick-yards of "Merrie England;" filling blast furnaces and tending coke ovens in "Sunny France." I have sadly watched her bearing the heat and burden of the day in the fields of the "Fatherland," and in Austria-Hungary doing the work of man and beast on the farm and in the mine. I have seen women emerge from the coal pits of "busy Belgium," where little girls and young women graduate underground as hewers of coal and drawers of carts, for it is no uncommon thing in Europe to hitch women and dogs together that manufacturing may be done cheaply. Aged, bent and sunburned. I have seen woman, with rope over shoulder, toiling on the banks of canals and dykes in picturesque Holland. Having witnessed all this, I was yet surprised to find in a city so beautiful and seemingly so rich and prosperous as Stockholm, in Sweden, women still more debased. In Stockholm she is almost exclusively employed as hodcarrier and bricklayer's assistant. She carries bricks, mixes mortar, and in short does all the heavy work about the building. At the dinner hour you see groups of women sitting on the piles of wood and stone eating their frugal repast. They wear a short gown, coming a trifle below the knees, their homeknitted woolen stockings and wooden shoes Over their heads a kerchief is tightly tied, Those engaged mixing mortar and tending plasterers wear aprons. They are paid for a day of hard work of this toil, lasting twelve hours, the munificent sum of one kroner (equivalent to 26.8 cents). Women sweep the streets, haul the rubbish, drag hand-carts up the hills and over the cobblestones, unload bricks at the quays, attend to the parks, do the gardening and row the nerous ferries which abound at Stock holm. The entire dairy business of the city is in theirhands, and here they take the place of horses and dogs, carrying on their shoulders the heavy cans of milk from door to door.

On another page he quotes the following statistics:

The census of free-trade England shows that 65,000 women are engaged in coal-mining, clay-working and the manufacture of iron and steel. Of the 6,373,367 persons returned in 1881 as engaged in industrial pursuits in England and Wales, 1,578,189 were women. Of the 3,837,112 so returned in the United States only 631,988 were women. Of this number the manufacture of tobacco, boots and shoes, clothing, woolen and worsted, cotton and silk goods, hosiery. millinery, carpets, fancy boxes, hats and caps, printing, bookbinding, and canning fruit employ about 460,000, and the miscellaneous industries the remainder. But few are engaged in out-door manual labor. At present we are not obliged to graduate our pirls and our future mothers as fillers of blast furnaces and makers of brick. The competition with the laborers of Europe has not yet compelled our women to work at the anvil and the smithy fire. The labor of women in the United States has not yet been degraded, because men who bow down and worship the god of cheapness demand it; so long as the labor of our country is protected, so long and no longer will the head of the family be able to earn enough money to support his wife and children.

We can add nothing to these pictures of woman's abasement. They are true, the more the pity, and in them is a solemn warning to prospering America. If we would maintain the high standard of American womanhood; if we would add to the comfort and beauty of domestic life; if we would be surrounded by that delightful atmosphere of refinement that makes even the humbler homes of our land charming, we must see to it that the wall of protection is never thrown down, but that it stands forever an impregnable barrier between European and American labor.

#### The Argument of Figures.

An exceedingly suggestive table of statistics accompanied as a supplement the Tariff League Bulletin for September. It was compiled for the American Almanac from government official reports for the fiscal year ending June 30, 1886, and gives the quantities, values, rates of duty and total duties collected on imports entered for consumption during that period. To all students of figures who will examine these statistics without prejudice, they will be a better argument for maintaining the protective idea in our tariff laws than volumes of speeches or essays. In that year the total expenditures of the government were \$242,483,139, and the surplus applicable to extraordinary expenses and extinguishment of the public debt was \$93,956,587. One of the heavy items of expense, interest on the public debt, amounting to \$50,580,146, has in the last fifteen months been materially reduced by the purchase of outstanding securities, and it will never again be as large by a third as it then was. The receipts from internal revenue that year were \$22,849,349 in excess of the surplus, while in the gross outlay for civil and miscellaneous purposes was included the cost (\$4,000,000) of maintaining the bureau, and a considerable sum for the cost of arrest. trial and punishment of offenders against the revenue laws. It is perfectly plain therefore that this bureau can be dispensed with hereafter, and that the country can be relieved of a swarm of officials who are no longer necessary, while the system which they represent is and always has been opposed to the spirit of the national constitution and obnoxious to the American people.

There are other important truths concealed in these tabulated statistics. Of these the Bulletin says: "It is interesting to note that raw materials, which it is alleged the adminstration proposes to put on the free list in order to reduce the revenue, are chiefly agricultural. They comprise imports of over \$40,000,000 of agricultural products in one year, on which duties were collected amounting to less than \$13,500,000. The remaining raw material consists chiefly of iron and copper ore and bituminous coal, in all amounting to about \$4,000,000 in value, and paying duties amounting to about \$1,200,000. \* If, in spite of an average duty of 30 per cent., over \$40,000,000 worth of agricultural products (at foreign valuation) are annually imported, it is not difficult to imagine the effect upon our farming industries of making these materials free."

The duties from crude manufactures imported for use as materials for more advanced products are shown to have been \$7,757,123, or 27\frac{1}{2} per cent. of the foreign valuation of the entire importation. "If these should be put on the free list, as has been proposed," says the Bulletin, "the

total amount of reduction of the revenue would not exceed \$23,000,000, which is about three-fourths of the internal revenue derived from the tax on tobacco. It may be doubted, upon an investigation of the facts exhibited in these schedules, if Congress will consent to sacrifice or imperil the agricultural and manufacturing interests of the country by placing them in free competition with the labor of foreign nations, in order to secure such a comparatively insignficant reduction of the revenue."

#### A Whiff of Hartshorn.

The Puritan foremothers went to meeting every Sabbath carrying sprigs of fennel and caraway to rouse them from their tendency to sleepiness when the prosy old doctrinaire in the pulpit began on his "teenthlies." In later times of less simplicity their fair descendants, borrowing the fashion from the daughters of the more phlegmatic Knickerbockers, took small bottles of salvolatile to their sanctuaries for the same purpose, and, while the parson droned through his customary assault upon the sins of the Hittites, Perizzites and Jebusites, they kept themselves from "nid-nid-nodding" by frequent whiffs of hartshorn. And so it has come to pass that every lady who wishes to escape the charge of being a victim of lethargy in a religious assembly makes sure, before she leaves her home, that she has on her person her little bottle of "keep awake." Fair women now call them vinaigrettes or by other fanciful names, but the waking power within their crystals is that same oldfashioned salt that the grandmothers used.

There are in these United States numerous men who are dull and sleepy on many questions of national import that affect their own welfare, and in no part of the country are they more numerous or more lethargic than in the purely agricultural districts of the South and West. While to a certain extent this is true of all that Piedmont region, whose magnificent resources have just been illustrated at Atlanta, it is especially so in those other sections where king cotton is supreme on the plantations, and retains his hold upon his subjects by keeping them in a state of semisleepiness from year's end to year's end. What can be done to arouse all these people who have listened from infancy until now to the stupifying, sleep-inciting doctrines taught by free trade speakers and writers? The Manufacturers' Record prescribes for all such repeated whiffs of Hartshorn, not from a cut-glass bottle, but from a little pamphlet called the Industrial Miscellany, recently published by Mr. E. A. Hartshorn, a voluminous and always instructive contributor to the protection literature of this country, and the author of "Wages, Living and Tariff." This

this motto: "No substantial advancement in civilization has ever been made where protective principles have been ignored." On the outside, on the last page, is this trite sentence by the author, which is worthy to be classed with the still quoted proverbs of Poor Richard's Almanac: "Nothing is cheap when we have nothing with which to purchase." Enclosed between these telling sentences are 54 pithy but exceedingly stimulating chapters, treating of a great number of themes more or less closely connected with the central idea of protection to American industries. Every one of these is as pungent and arousing to the lethargic thinker as is a bottle of smelling salts to a drowsy worshipper. They are also overflowing with a quiet humor that adds to the interest and potency of the main argument. Our author's short chapters are remarkable for their solid common sense. No long arguments or fine-spun theories for him. He gets to the nub of the matter at once, and illuminates it by a question or a joke. Here is a specimen. Replying to those who claim that cheap labor is a blessing, he asks: "Why, if cheap labor is the all-important element of national thrift, would it not be a capital idea to drive our sheep to China to be sheared, our cows to Central Africa to be milked and our horses to England to be shod?"

Perhaps one of the most instructive chapters is that which tells of the effect of British rule in India. We quote it entire as follows:

When the English went to India it was the foremost manufacturing country in the world. It was to buy the delicate manufactures of cotton that Europeans set up their trading stations along its coasts. Those manufactures had been famous from the time of the Roman Empire.

The finest were so delicate that the Roman poets called them "woven wind."

A lady's dress made of this fabric could be drawn through her finger-ring, Decca alone had 30,000 looms at work in the bounds of a single city. In some parts of the country every man, woman and child were employed in some stage of the manufac ure.

But England's industrial policy has cruelly changed India to a mere "food" and "raw material" producing country, and while a manufacturing country always has products which it can sell in times of scarcity to buy food, a mere food-producing country has nothing in times of famine. Therefore twenty years of free trade (?) accomplished the work of destroying Hindoo industry.

Decca became a ruin; great marts of trade on the coast were destroyed; the price of agricultural produce fell to a ruinous cheapness, because nearly everybody was producing food. The poor Indian weavers were reduced to absolute starvation, because of their inability to compete with the production of the power-looms of England.

One standard British authority says 37,-000,000 human beings have died of starvation in India since Queen Victoria came to the throne; while Miss Nightingale, who knows India from personal observation during the last great famine, expresses the opinion that fully this number starved to death in that single year of her labor in India.

There are some frozen truths in the foregoing that no free-trade advocate has ever attempted to explain. In the words of one of them, when speaking of another matter, "if these things are true, so much the worse for the facts."

Not the least entertaining and suggestive feature of this book is its wood cuts. One of these illustrates the position of those who oppose "hot house industries," preferring natural development, by a picture of a forlorn old Indian squatting beside a wood fire he is feeding. Another called "too much free raw material" depicts a sea sick passenger in the act of paying tribute to Neptune. Take it from first to last, this series of short, witty and very-much-to thepurpose essays is a valuable addition to the list of instructive works that the Amercan Protective League recommends for general distribution. No opponent of protection, however wily he may be, can successfully combat any of this authors propositions. We hope the pamphlet will go in all directions, and be widely read. It will certainly act as a whiff of hartshorn whenever it falls into the hands of those who have been lulled into sensuous repose by the smooth speeches and erudite editorials they have read. It is a capital work and ought to meet with a large sale.

WE have from time to time called the attention of our readers to the resources and advantages of the thriving young city, Tuskaloosa, Ala. In connection with the remarkable display made by this town at the Piedmont Exposition just closed at Atlanta, we clip the following from the Constitution of the 12th inst.

Tuskaloosa, Ala., has done herself proud. The display made by this phenomenal young town is simply wonderful. Mr. Robert Jones, a courteous and vigilant gentleman, assisted by Mrs. Anderson, an intelligent and pleasant lady, preside over this department. There is no better collective exhibit in the exposition, and there is not one which is arranged in more attractive shape.

The coal exhibit of Tuskaloosa is surpris-Two solid blocks, from 5-feet seams, The State weigh over two tons each. geologist says the "famous Pratt vein, which is Birmingham's coke source, actually under-lies Tuskaloosa," and that "the coal measures of Tuskaloosa county are believed to be thicker than any field in the known world. There are, in these measures, some 53 seams of coal, which have an aggregate thickness of about 125 feet pure coal, of which 25 seams are of workable thickness, y seams having over four feet of coal, and 3 having more than six feet of coal." J. Blodgett Britton, the Pennsylvania authority, in his analysis, gives 80% per cent. of fixed carbon to the coke made from this coal, of which there is over a ton on exhibition. The other minerals in the Tuskaloosa ex-The other hibit are almost as surprising. Red brown nematite, brown and manganifer or spiegel ores, sulphate of iron, limesto Red and w ochre, paint rock, glass, building and yell yellow ochre, paint rock, glass, outding and moulding sand, fire-clay, potters' and brick clay, being included in the exhibit; thirty-one merchantable woods and splendid specimens of agricultural products are among the features of the Tuskaloosa collection

Tuskaloosa is the only Alabama town having direct all-water transportation to the

having direct all-water transportation to the sea.

The agricultural display is excellent, embracing several kinds of corn, five or six varieties of sweet and Irish potatoes, and many grasses, herbs, etc. A notable feature is the tobacco. There are four or five different grades of manufacturers' cigars, some of which are said to be very fine. There are also many useful and pretty articles manufactured by machinery and hand.

#### The Boston Convention.

The convention of the North Atlantic department of the American Shipping and Industrial League at Boston last Friday and Saturday was largely attended by representatives of commercial trade and manufacturing bodies, and by prominent farmers and fruit cultivators. All reports agree that it was an assemblage of earnest men who knew the needs of the country, and were determined to have them understood by the people and their representatives in Congress. The addresses delivered were all of unusual excellence, and remarkable for their unity of sentiment and for the directness of purpose they evinced.

The welcome in behalf of the city by Mayor O'Brien was brief, graceful and pertinent. In one sentence he brought the situation before the convention, saying: "If I addressed you a generation ago, if I had gone back 30 years, I should have been able to point to the most prosperous industry, in which there was more business enterprise developed than in any other business interest in the country. I can only say that you represent a neglected interest, an interest that needs revival." The contrast between the glorious past of the American merchant marine and its present forlorn condition, and the corresponding decadence of this country as a naval power, were strongly presented by several speakers, and especially by Hon. R. S. Spofford, who presided; by Senator Fry, of Maine, and by Hon. N. D. Sperry, of Connecticut, delegate from the New Haven Chamber of Commerce. The latter said:

The total ship tonnage of the United States, June 30th, 1858, was five million tons and upwards; registered for foreign trade 2.500.000: enrolled and licensed 2,502,000; steam navigation 729.390; increase for the year 108,965 tons. In 1860 the tonnage of the United States was 5,353,868. In the same year there were built ships carrying 212,892 tons. Since that date, 1860, American shipping has declined. In 1866 there was but one vessel building or in course of construction in New York city, and only two in Boston. Before the war the stars and stripes led the carrying trade of the world, and the American ships had the preference for trade, care and speed, and this gave them the advantage on every ocean. The tonnage of Great Britain in 1861 was 4,806,826 tons; United States 5,539,813 tons. During the five years ending with 1861 the carrying trade of New York was I billion, 644 millions of dollars, of which I billion was carried under the American flag, leaving but little more than half a billion for all the other nations. The advent of the war, and with it English cruisers, turned the tide against us. Thus in the four years which followed, out of I billion, 700 million dollars of foreign trade for New York city, less than \$400,000,000 was under the stars and stripes, while over I billion, 300 millions was carried under other flags.

These statements are humiliating to all true Americans. The war was England's advantage. Change from sail to steam and the building of iron ships worked against us also. The policy of Great Britain was not only to break down our shipping by putting on privateers, but to grant subsidies or bounties large in amount. Other countries followed, giving bounties or granting subsidies. As yet we have no system, and it is time we

had. We are giving to commerce, both in exports and imports, more than any other nation. When it was shown the Emperor of Brazil that the great trade between his country and our own was most of it by the way of England, he offered to give \$125,000 annually for a ship line direct to Brazil if our government would do the same. John Roach, one of our most enterprising shipbuilders, went so far as to build the ships. not even thinking but what our government would make the appropriation required. But, to our shame and disgrace, the amount was refused. Yet Congress appropriates money to build navies to defend commerce. should expend out of our large and muchtalked-of surplus something for the benefit of our merchant marine service the right thing would be done. If we could spend even a small portion of the surplus for our merchant marine the people would reap a large harvest, and the vexed question of surplus would be settled in a measure at least. Free ships, as talked of by some, would, as we are situated, complete our discomfiture, and ship-building would be unheard of in this country. England to day pays about \$9,000,-000 a year in subsidies or bounties, and in the last forty years she has paid over \$200,000,000 in subsidies to her merchant ships. Always on the alert to extend commerce, England pays \$800,000 per annum as a subsidy, pure and simple, to the new line which plies between Vancouver and Yokohama, and seeks to take from America the great Pacific trade. Is there any wonder that England's foreign trade amounts to 6,000,000 tonnage, while that of the United States barely reaches 800,000. France, Germany, Spain, Italy, Chili, the Argentine Republic, all pay in some form or another to help their commerce, while in the United States, every time the subject is presented to the attention of Congress, aid is denied. Forbearance may cease by and by. I must change one statement I made about Congress voting aid to commerce. It did vote \$400,000; but our administrators, rather than encourage our own ships, preferred for-eign "tramps." Talk about the decline of eign "tramps." commerce, is there any reason why it should not decline when money voted for our own use goes to foreign companies? We talk about commercial treaties with foreign governments. The first thing to do is something for the shipping interest of this country; then we may have ships to trade in should such treaties be adopted.

Hear what the London Gazette says about us, the organ of the Lloyds:

"One of the most prominent questions at the present time in the United States is how shall the national mercantile marine be revived? In the palmy days of American shipping their fine clippers were to be found spreading their white wings in all parts of the ocean; now it is becoming a rare thing to meet in the world's highways a vessel flying the American flag, and of those which are afloat it is still more exceptional to find one of American build.

Americans are now greatly exercised on the subject, and numerous proposals and suggestions are being made in the public prints and elsewhere for resuscitating the American marine. The British shipping community are certainly interested in this matter, for the obvious reason that the bulk of the carrying trade of American produce and manufactures is in the hands of British ship-owners. It is important, therefore, that we should have an intelligent apprehension of what is going on, in order that we may be ready to take an effectively defensive part in the competition, if such competition at any time be established.

It is somewhat fortunate for our interests that on the other side of the Atlantic opinion is divided as to the best means of remeding matters. One party is hot and strong for bounty and subsidy. In the last Congress this party presented a bounty bill, providing 'that every American vessel, sail and steam, trading with foreign ports, shall be

allowed 30 cents per ton for each 1,000 miles sailed or steamed, for a period of 20 years. It will be recognized that this is not a very formidable form of opposition, for it is not in the least degree probable that the American taxpayers will consent to tax themselves to such an extent, and for so long a period, in order to develop or encourage one special branch of trade. He may be it will be many a long year before America again has a large fleet of merchant America again has a large fleet of merchant ships or carries on ship-building to any extent in her ports, but none the less is it incumbent on us to 'keep our weather eye lifting' and to shape our course according to the indications which may from time to time reach us from across the Atlantic."

This is all right from a British point of view. While our English brothers are keeping a "weather eye" upon us, let us do our

a "weather eye" upon us, let us do o le duty towards our own commerce.

Mr. Sperry advocated the passage of the thirty-cent tonnage bill, as did all the other speakers, and closed with an earnest and patriotic appeal for the restoration of the American flag to leadership on the high seas.

This convention has forcibly pressed upon public attention certain fundamental truths. First, it is not the ship-builders that call for assistance or that need it, for the real competition is in the sailing instead of the building. Free ships are, therefore, no remedy for restoring our merchant marine. Secondly, our maritime interests have not fallen off because of protection, but for the want of it. The Boston Journal says truly: "Our ships have been competing unaided in open markets with the subsidized fleets of foreign nations, and the fact that though our builders and seamen are unequaled, the industry has almost perished, while our general prosperity has been stupendous, is an overwhelming vindication of the wisdom of the tariff. The time has come for our ships to have the same protection which has built our factories." This is the reason upon which rests the demand for the passage of the tonnage bill. That it will encounter a bitter opposition in Congress is to be expected, for the London Gazette, in the article quoted by Mr. Sperry, has given us fair warning. John Bull will keep his "weather eye lifting" and "shape his course according to the indications that may from time to time reach him across the Atlantic." We all know what that means. "The third house" will be filled with assistant congressmen," paid from his ample purse to prevent the passage of any measure to restore our merchant marine.

Before adjourning the convention appointed a committee from seven States to call upon President Cleveland, present to him the resolutions embodying its views, and to solicit his co-operation. This was a wise measure and one that ought to yield large favorable results. Next let the Gulf States speak through their representatives at Birmingham.

THE communication on the Internal Revenue System, published elsewhere, presents an interesting and forcible reply to some of the views advanced by another correspondent whose letter on the Treasury Surplus was published a few weeks ago.

### THE PIEDMONT EXPOSITION.

A GRAND SUCCESS

The Wealth, Resources, Prosperity and Development of the South Handsomely Exhibited.

Half a Million People Visit the Great

ondence MANUFACTURERS' REC OFFICE MANUFACTURERS' RECORD,

EXPOSITION BUILDING.
ATLANTA, GA, Oct. 20th, 1887. The Piedmont belt section of the eve growing South, the pregnant and fruitful land to which the people of the coming ages will turn their steps for homes, has planted another guide post to stand out as a veritable land-mark to note another era of

Southern progress and development.

The many thousands who have come with love and pride in their hearts to witness what has been accomplished at home by patience and industry on a new line of industrial skill, have returned home with a certain degree of mental satisfaction that could not possibly have been obtained either by reading or by conjecture. The products of the land under a new regime, the manufactured articles of Southern manipulation. inventive skill and genius displayed in many varied forms of productive usefulness, told the story of what the South has done in the past, and what the South intends to do in the future.

Grandly sublime this productive skill of our Southern country, which means selfpreservation and self-protection: the utilizing of the smaller things which have been allowed to go to waste from sheer indifference,-and these are the coming elements of our prosperity, which is but the forerunner of the greatest and grandest industrial

development of the 19th century.

Worthily has the South from the far-famed locality of the Piedmont belt asserted itself at this exhibition, which gave an inkling what is being accomplished by heroic mer and lovely women of the Southland in the practical issues of life. Indeed, the transition from the old methods of thought and action to the serviceable and skilled pro cesses of to-day has been happily exemplified in no uncertain manner and with a permanency as enduring as the foot-hills of the everlasting Piedmont section itself. Wonderfully heroic this self-assertion of our people over events where the mantle of forgetfulness has fallen, and where the lights and shadows of progress and prosperity steal gently through.

Doubly blessed this Southland which has arisen phœnix like from disaster to a position grand and exalted among the nations of the earth, and in whose history there is much to extol, remember and perpetuate.

Gracious was the privilege granted us whereby we have for the first time in many years welcomed a Democratic president in our midst that he might realise as the representative head of this country the true status of our prosperity and advancement. These have been some of the fruits and advantages of the Piedmont Exposition wherein all alike have rejoiced and been made glad.

The exhibits were worthy the considers tion of the large crowds that came hundreds of miles in order to participate in the industrial event, and the exhibitors deserve much praise for the manner in which matters and materials were adjusted for the exhibition. Indeed, too much praise cannot be given to those exhibitors who came from far and near and made prepara tion for the exhibition, but little commendation can be given to the management who for the most part seemed to have lost their heads in the immensity of the crowds and in the attempt to direct the passage of the people to and from the exhibition. In fact the crowds were too large for Atlanta to handle properly and with any degree of comfort, convenience or ease.

The mineral display was the best that has been exhibited in the South for many years, and was highly praised, both for its variety and its richness.

The machinery exhibit surpassed anything of its kind, and enjoyed the distinction of being the most thorough in its details of any at the exhibition.

Among the States represented, North Carolina held her own against all odds, and the sinews of her material wealth were amply defined in great magnitude and in undeniable strength.

The products from the Nanteyalee Valley, in Western North Carolina, as exhibited from the Jarrett property, containing over 7,000 acres, showing its wonderful and varied mineral, marble, slate, talc and timber resources, were exceedingly gratifying and drew forth much surprise and comment

The magnificent display of the 54 varieties of minerals and gems by the Marion Bullion & Manufacturing Co., in charge of General Manager Henry C. Demming, was the finest and most striking display of the whole exposition. Here in a handsome case were the diamond (one-half degree harder than the African diamond), ruby, sapphire, emerald, hyacinth, zircon, a heautiful light pigeon bloodstone (twice as valuable as the diamond), the garnet, opal, aqua marine, topaz, carbuncles, noonstones and other gems, all from Western North Carolina, and in most part from McDowell county. This exhibit, contained in a small show case, represented \$50,000.

The marbles and woods of Western North Carolina, owing to their variety and most excellent quality, attracted universal attention; in fact, the old North State seemed to have capped the climax in the excellent and general display of her minerals where old Rowan county held her own in the most auspicious and creditable manner.

The Marietta & North Georgia exhibit, which was under the able management of William Beal, of Murphy, Cherokee county, N. C., attracted great attention. This display consisted of a great variety of minerals, marbles and timber, which lie in great profusion along the railway, passing through a country rich in nearly all the resources known to man

The State of Alahama made a notable showing, superior in many respects to most of the other exhibits. In systematic arrangenent it could not be surpassed by any.

Anniston, Gadsden, Sheffield and Tuska loosa, the iron manufacturing centers of the South, made striking and prominent displays which were visited by tens of thouands in quest of information relative to the great iron-producing sections of the South.

Georgia paraded herself in a manner that reflected credit upon her as one of the most progressive and prosperous of all the Commonwealths, and her displays from all sources were par excellence and presented in the best possible manner. The exhibit of Floyd county was conspicious for the variety of agricultural products and in the display of the farm productions. It was by all odds the best exhibit at the exposition. Georgia may well feel proud of her exhibit,

The Augusta Cotton Factory and the Sibley Manufacturing Co. both gave handsome displays of their fabrics and the style and texture of their manufactured goods, all of which proved the excellent opportunity the South offers to the manufacturer who comes to the home of the raw material to convert it into textures ready for the use of

The Columbus, Ga., exhibit was by far the most conspicuously magnificent in the Exposition Building, and was in charge of the Messrs. Walker Bros. Here were represented the home productions of the South in elegant The Eagle & Phenix Mills, the Muscogee Mills and the Clegg Mills, of this great Southern manufacturing center of cotton goods gave specimens of their work in at least a hundred varieties, from the raw material to suits of clothes ready for use and in numberless manufactured goods of many kinds, texture and variety.

It would require several pages of the the exhibit of the Piedmont Exposition, and it is with much reluctance that I draw the line here. Suffice it to say the Pied mont Exposition was a grand and magnificent epitome of the South's material wealth. growth and prosperity in the industrial arts sciences, and furnished a wonderful revelation of our unequalled advantages and resources, which are but the corner-stones of a structure that, like the Temple of Solo will command the recognition of the men of all nations and for all sges.

HINTON A. HELPER.

#### "The Future Sanitarium of the World,"

The Healthfulness and Beauty of Western North Carolina

[Editorial Correspondence MANUFACTURE RECORD.]

McAboy House, McAboy, Polk Co., N. C., Oct. 20, 1887. "My friends, North Carolina is the me glorious country upon which my feet or eyes have ever rested," said Pennsylvania's gre statesman, Hon. Wm. D. Kelley, in a public speech after returning from the South, and the more I see of Western North Carolina the more fully do I endorse this enthusiastic tribute to the old North State. Two years ago it was my good fortune, while in search of a health-restoring climate, to hear of Polk county, N. C., and a six months' stay convinced me that the half had not been told. Nestling at the base of a great range of mountains nearly 4,000 feet high, en circling it on all sides except to the south, is Polk county, which has an average elevation of about 1,200 or 1,500 feet above the sea level. The peculiarity of this circling mountain range gives to this county a pro tection from cold, and adds to the wonderful charm of the climate throughout this farfamed mountain section; a freedom from coldness and dampness that can only be appreciated by those who have felt its exhilarating influ

Reverently I have often thought that while the Creator could have made a more delightful climate than that enjoyed by this county, surely He had never done so, I have met people who have travelied through many lands, and I have yet to find one who does not readily admit that this is the best climate that he has ever found. In summer and winter alike it is charming, of course very warm at times and very cold at times, but never reaching such extremes that one cannot be comfortable, while in spring and in autumn no words can do it justice. Life grows brighter and one feels an exhilaration of spirit unknown in the low country as his lungs expand to the bracing balmy air of this heaven blessed "Happy Valley," a name by which some of its inhabitants love to call this region.

And truly it is a "Happy Valley." Burrounded by majestic mountains, whose tow-ering summits afford views of surpassing grandeur and ever-varying beauty; watere by mountain springs and rivers almost without number; a soil that yields to the farmer and the fruit-grower a good return for their labor; settled by a happy and contented people, and so free from crime that an unlocked house is safe at night, and a lady can ride alone along these mountain roads without ever a fear of harm, Polk county is surely a favored land.

This section is every year becoming more widely known as a health resort, and especially for those suffering from lung and throat troubles. The remarkable dryness of the air, added to its bracing effect on the whole system, has restored to the full measure of health many who had abandoned all hope of recovery. Unfortunately the facili-ties for reaching this county have not been very good, as the one railroad which pass through it is of a somewhat primitive character, and is said by those who travel over it

to have only one object in existence, and that is always to be late. The provoking uncertainty as to when the trains will arrive or depart and the discomfort of the unclean cars, doubtless in times past kept many away from here. Recently, however, a through train, which is probably composed of somewhat more inviting cars, has been put on, running direct from Charleston to Asheville. 40 miles above this place. Then, with the exception of the McAboy House, for many years a charming place, which can accommodate 35 to 40 guests, the county is without any inviting hotels. There is one hotel at Tryon City, the only railroad station in the county, which is about 11/2 miles from Mc-Aboy, but it has never given satisfaction to the travell ng public. Just now, however, there is considerable rejoicing in the county over the fact that within the last few days it has been purchased by Dr. Cox, formerly a leading physician of Louisville, Ky., who settled here a few years ago for his health. Dr. Cox proposes to put the hotel in thorough order, repaint and refurnish, it and make it a pleasant place for winter and summer, and, still more important, to put it under the management of a good hotel man. Knowing Dr. Cox personally, I feel safe in stating that under his ownership the Tryon Hotel will prove a great addition to this section, and, in connection with the McAbov House, will be instrumental in doing an immense amount of good for the whole county.

uncy.

The scenery throughout this region is inescribably grand. Winding around the describably grand. mountains and leading up to their very summits are fairly good roads that can be traveled over in vehicles, and from every point new views of wonderful beauty are to be had. From the summits one can look off to the south, where, as far as the eve can reach, stretches out the comparatively level country dotted here and there with villages and towns, with farms and woodlands, so interspersed as to add variety to the scene, while to the north can be seen range after range of majestic mountains, seemingly piled in endless confusion, though between them lie great valleys watered by never failing streams that, winding on and on, "go laughing to the sea."

Seven miles from here is a magnificent water-fall which has few equals in this coun-Forming on the top of a mountain, 4,000 feet high, it rushes down 2,600 feet, making several grand leaps in this great distance A few miles in another direction are Melose Falls, where a river breaking its way through the mountain gorges rushes with a great roar over hugh boulders. Of all the weirdly, wildly beautiful spots of this mountain country this is probably one of the grandest. One may spend day after day and week after week visiting these scenes and never tire of their endless variety and The greatest charm of all this charm. country, though, is its wonderful balmy, bracing, health-giving and heath-restoring cli-

THE whole South has been benefited more than it will probably ever realize by the intelligent manner in which its resources and attractions have been explained to the general public, and especially to the class of men having money to invest in new enterprises, by the Baltimore MANUFACTURERS' RECORD. The South is indeed rich in the bounties which nature has bestowed, but it has required enterprise and capital to convert them into available forms. In the task of interesting men of money, brains and enterprise the MANUFACTURERS' RECORD has taken a conspicious part, and its evident prosperity is a strong proof that its valuable labors are being duly appreciated .- Railway Register, St. Louis, Mo.

If you are not already a subscriber to the MANUFACTURERS' RECORD, send us \$3 and you will receive it regularly for one year, or six months for \$1.50.

#### The Internal Revenue Tax.

NEW YORK, N. Y, Oct. 19, 1887.

Editor Manufacturers' Record:

I hope you will allow a fellow-townsman to say a few words about the communication of Mr. J. M. Vernon on "The Treasury Surplus." Not occupying your space with approval of his many just views, I wish to call attention to paragraph numbered I:

"I. If the internal revenue were entirely abolished it would be a great boon to the tobacco planter and remove an onerous tax upon the producer of the soil, and place him at liberty to dispose of his products at pleasure, instead of through licensed tobaccomer chants, but in the case of alcohol it would be entirely different. It would be a flagrant outrage upon the general sentiments of the people and the industry of the country, nor ould its trade and commerce receive any benefit therefrom. Public sentiment, as well as national policy, is opposed to granting king alcohol a free license to run riot throughout the length and breadth of the land at the expense of other necessary indus-

While all will agree as to the advantage to farmers and others which would accrue from power to sell tobacco as freely as other produce, it is thought that a worse effect of the tax on tobacco lies in the fact that by its incidence it throws the manufacture of cigars into the hands of large concerns, thus increasing the numbers of "those who do not own their own business"-a class which is the only hope of the anarchists in this coun-The larger manufacturers of tobacco will be found fighting against repeal of the tobacco excise as vigorously as the one or two firms of match manufacturers fought against the repeal of the stamp duty on atches, and they will be helped in the fight by the labor agitators of the country.

The tax on fermented liquors has not produced so large and distinctive a class of wage-earners as the tobacco tax, but has built up a compact body of wealthy brewers in this city, whose political influence is understood to have been great enough with Secretary Manning to induce him to alter the classification of broken rice just before the last gubernatorial election in this State. and who have, in an effort to find investments for their money, filled our city with lager beer saloons far beyond the necessities of our population, so that their income has to be extended by pool tables and worse adjuncts, unnecessarily and artificially increasing the drunkenness and immorality of the town.

The tax on alcohol, amounting, as it does, to less than one cent on a drink of whisky, is but a cobweb in the way of rum drinking, but as it allows, or is the excuse for, selling the five-cent drink for ten cents, by increasing the rum-sellers' profits, so far as it influences drinking at all, it increases it by drawing a larger number to the traffic. It also, as do the taxes on tobacco and beer, discriminates against the small man.

Of the effect on the industries of our country, David A. Wells may be quoted, who "The first effect to be noticed of these internal taxes upon distilled spirits is their industrial influence. This amounted, in fact, to an industrial revolution, essentially modifying and even destroying great branches of industry." He then enumerates burning fluid, of which alcohol was the principal constituent. Druggists estimated the reduction in the use of alcohol in their business, consequent on its increased cost, at from one-third to one-half. "The increased price of vinegar, before manufactured largely from whisky, so far affected the cost of pickles and white lead as to greatly diminish domestic consumption and almost entirely prevent exports." And many other industries are mentioned as incommoded by the high price of alcohol. In addition to and as a consequent, according to Mr. Wells, the consumption of opium was increased. To this day many industries are curtailed or transferred to other countries, where a more intelligent view of manufacturing necessities is entertained, by the high price of alcohol.

But it is neither in the injurious effects seen from the concentration of capital in the hands of the whisky ring, nor in its injury to our industries, that the internal tax on alcohol exhibits the maximum of its mischief. It is to be found, as many of your readers know, in the mountain regions of the South, where it is impossible, on account of lack of transportation, to market grain, (the only resource of the farmers of that region,) except in the form of whisky, and leave the growers a livelihood.

The same considerations which led the inhabitants of Western Pennsylvania during Washington's administration into the "whisky rebellion" leads a community that a generation ago was not less upright and worthy into "blockading."

No American cares to write of the contempt of all laws and the crimes which have naturalized themselves among this body of at one time admirable men, and I think you will agree with me, Mr. Editor, that neither missionary labors nor the lapse of two generations will return those communities to the moral standard they maintained before the "whisky tax" forced them into law breaking.

The inconvenience to and repression of agricultural and industrial efforts; the increase of drunkenness and vice; the danger from socialism, and the demoralization of a whole section of country is to be maintained that, in the words of Worthington C. Ford, a writer of classic political economy, the lower strata of society may be made to bear their full share of the expenses of the State; or that the supposed sentiments of the people are not outraged; or that the larger gains of English manufacturers may be increased, and they have more money with which to encourage the increased cultivation of wheat, cotton and rice in India, and furnish transportation for the same.
2. "Put on the 'free list' animals of

2. "Put on the 'free list' animals of all kinds, breadstuffs, coal and coke, fish, flax, hay, iron and copper ores, marble and stone in the rough, provisions and dairy products, peas, beans, potatoes, lumber, wool, books, maps, etc., etc. The duties upon the aforesaid articles are now from 20 to 56 percent, ad valorem, and in 1885 amounted to about \$10,000,000."

In regard to the "free raw material" doctrine implied above, I only wish to ask when it would stop and what would be its effect. Does any one in Alabama think that with free iron ores the mines of his State could have been opened, or that with free pig iron, the raw material of the New England manufactures, Birmingham could have been built up, or that the wonderful tales of Southern progress towards industrial supremacy and wealth recorded in your pages from week to week would have been written, or that cotton factories would be starting all over the South if they depended on Egypt or India for their raw material?

When an industry has accumulated capital and skilled workmen it may draw its raw material from a distance, as the Cleveland district in England now draws much of its iron ores from Spain; but industries are not started under those circumstances in a country where capital is scarce.

Some who consider themselves intelligent hold that a people cannot get rich unless they are impoverishing others. Ireland and India show the fruits of such theories. It may, I hope, be doubted if the people of the South will think that their market for cotton cloth will be extended by the poverty of our fisherman; that decreasing the profits of our grain growers will increase the markets for their agricultural implements; that helping England's shipping by allowing it to put down coal free of duty in the Gulf ports will develop coal mining, or that ruining the wool growers of New Mexico will extend the market for the small wares which we learn from the MANUFACTURERS' RECORD are being manufactured all over the South.

#### Many Facts of Interest.

Newsy Notes, Agricultural and Manufacturing, from Mississippi.

[Special correspondence MANUPACTURERS' RECORD.]

ABERDEEN, MISS., October 22, 1887.

Up to the 16th of October sixty-three out of the seventy-four counties in Mississippi were represented at the State Industrial and Technical Institute for girls at Columbus. There were 396 young ladies in attendance, of whom 212 were in the dormitories of the State buildings. Mississippi has reason to be proud of this institution, as it is the only one of the kind in America.

Mr. R. S. Searles, of Iowa, has purchased a large tract of land in Pike county with a view to going into stock breeding on an extensive scale.

The Delta Farmers' Association will hold its next meeting at Greenville on the 8th of November.

Mr. C. T. Worthington, of Washington county, has sold this season to parties in Greenville 250 tons of Bermuda grass hay at \$15 per ton. His Bermuda grass pasture has also grazed and fattened a large number of cattle.

Vicksburg is agitating for a cotton factory, and the probabilities favor success. The vicinity can supply an abundance of excellent labor.

There are thirteen firms at Scranton, on the south coast, engaged in shipping oysters and fish.

In Biloxi, on the south coast, a new canning company has been organized by the Knights of Labor to can oysters, fish, shrimp, vegetables and fruit.

Hon. Robt. Lowry, governor of Mississippi, in a recent speech, said: "The assessed value of the property of the State is about \$120,000,000, but in truth \$400,000,000 would not buy it." The governor would have struck closer to the mark if he had said \$600,000,000 would not buy it.

There is not a finer region for pear culture in the world than the entire south coast of Mississippi, and we are glad to know that many horticulturists are devoting themselves to that industry. Around Ocean Springs hundreds of trees have been put out during the last two years, and they are so far exceeding expectations that many persons are preparing to plant pear orchards during the next twelve months.

Mr. Wm. Jolly, of Chickasaw county, planted a field of corn on the 4th of last June, and though it had but one rain, the yield is estimated at 25 bushels to the acre. We have known of fine crops of corn made in the Mississippi prairie from seed planted in July.

D. D. Jones, of Chickasaw county, reports goo gallons of excellent sorghum syrup this season as the product of 3½ acres of cane.

Mississippi contributed by far the larger number of visitors who assembled at Memphis to welcome the President on the occasion of his recent visit, and the State was also very strongly represented in the vast crowds that greeted him at Atlanta and Chattanooga.

Hon. Jno. C. Burdine, of Smithville, writes us as follows in regard to the three counties that form his senatorial district in the State legislature:

"The corn crops in Monroe, Lee and Itawamba counties are at least twenty-five per cent. better than those of last year.

The pea crop in those counties is at least fifteen per cent. above last year.

Sorghum, owing to increase in acreage and quality, will exceed the crop of last year forty per cent.

Tobacco is fully ten per cent. better, and the dairy interest exhibits wonderful advancement, especially in Monroe and Lee counties. I will endeavor soon to furnish you with a number of instances of individual progress in farming and stock raising."

It is needless to say that the report of

Senator Burdine for the counties named is a fair one for the entire prairie region and Tombigbee valley of Mississippi, and any statement from his pen will be accepted everywhere in this State.

Mr. James G. English, of Monroe county, sends us the following reports of individual

"Robt. Hill has made 75 bushels of fine corn on one acre of land this season, and made 100 gallons of very fine sorghum from a poor stand of cane on three-fourths of an acre. He also made three tons of German millet on a little less than one acre of land.

Mr. James Bryan made 200 bushels of peanuts on an acre and a half of land, in addition to saving all of the vines for hay.

Mr. R. A. Jones made 150 gallons of fine mollasses off of 1 1/4 acres.

Mr. E. Morgan made 225 gallons from 1 % acres of cane.

All of these farmers made fine crops of corn, peas, hay, pumpkins, etc., and h succeeded admirably with their cattle, and can show several beautiful colts apiece.'

Prof. Laws, the celebrated veterinary surof Cornell University, and Mr. Roberts, son of the Professor of Agriculture of that institution, have purchased two thousand acres of land in Madison county with a view to the immediate establishment of a grass farm for fattening stock for market, depending entirely upon the native grasses, Bermuda and Lespedesa Striata. Mr. Roberts will take personal charge of the enterprise and become a citizen of our State. This investment is the result of a visit by Prof. Roberts to Mississippi last year, upon which occasion he fully satisfied himself as to the enormous stock-breeding, dairying and hay-making resources and possibilities of our State.

The shipments of lumber from the port of Pascagoula for the week ending October 21st was unusually small, owing to the prevalence of storms on the Gulf, but footed up 694,264 feet, of which 558,111 went to Dieppe and 136,153 feet to Key West, Fla.

The Meridian Board of Trade has opened books to the stock of a steamboat that it proposes to put on the Mississippi river to run in its own interest between St. Louis and Vicksburg, in connection with the Meridian & Vicksburg Railroad.

The Mississippi Nursery Co., at Marion, in Lauderdale county, which has hitherto confined itself exclusively to wholesale dealing, has determined to organize a retail de-

The Meridian Fertilizer Factory is enlarging its works, and expects to be prepared to meet all orders next season. During the last season-its third year-the sales of the factory amounted to 6,600,000 pounds.

In Winston county, which is a little north of the center of the State, some of the hills rise to a height of 1,500 feet above the sea. There is little doubt but that minerals abound within its limits, and its vineyards aggregate many hundreds of acres.

The claim of Robinson & Co., of Meridian, to having the most extensive manufactory of brick in the State will probably only be disputed by C. H. Berg & Co., of Aberdeen, and Taylor & Co., of Jackson,

The Meridian Planing Mills are now taking contracts for erecting buildings in Alabama, Florida and Louisiana, as well as Mississippi, shipping all of the wood-work from their factory completed and ready to put together as soon as unloaded.

Fifty looms and 1,200 spindles have recently been added to the plant of the East Mississippi Cotton Mills, in Lauderdale county, giving it now 2 500 spindles, and it is now manufacturing yarns, carpet warp, rope, batting, Lowells and Asudburgs, It employs about 150 hands, who, like the operatives of all other Mississippi cotton and woolen factories, are white natives of the neighborhood.

The Meridian Candy Factory is doing a flourishing jobbing trade in Mississippi and neighboring States.

The extensive "Star Livery and Sales Stables" at Aberdeen, that burned down everal years ago, are being rebuilt by Mr.

The shipments of cotton from Aberdeen to October 13th amounted to 2,899 bales, against 1,225 bales to same date in 1886. The receipts to corresponding dates bear about the same proportion.

The work of constructing the Tombigbee river bridge for the Aberdeen branch of the Kansas City, Aberdeen & Birmingham Railroad will be completed in December.

The Aberdeen Examiner says: "Missis sippi looks the approaching winter right straight in the eyes without winking or blinking, for her corn-cribs and hay-racks are full to overflowing."

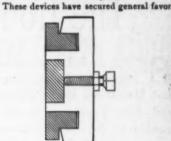
#### Special Machinery.

Devices that do away with laborious nethods and uncertain results must ever be a source of interesting study for the student of mechanics and the manufacturer who watches the progress of industrial art. The illustrations in this article present features that must commend themseves to those connected with the metal working industry. The cut following shows a neatly constructed ortable cylinder boring machine.

This machine is designed for re-boring all makes and sizes of steam engine cylinders, pumps, steam hammers, b'owing engines, air

ing out, and fast for finishing cuts. The feed is automatic and constant, and at the pressure of the operator. The bar is driven by a train of powerful cut gears either with a crank or belt for power. With this bar is furnished a self-centering chuck that fits in the stuffing box supporting the bar perfectly central at that end. Also two cross-heads and bearings are furnished to support the bar when both cylinder heads are off. In many instances this tool is particularly





minimum, no cutting of the cylinder surface ever takes place. The center ring is fitted into the bull ring, and is adjusted by the set

screws so as to carry the piston central and

hold it steady, thereby relieving the steam

rings, and leaving them free to act upon

every portion of the circle of the cylinder,

and to adjust themselves to inequalities of

diameter. In all places where now in use,

it has very materially increased the power

and decreased the consumption of co

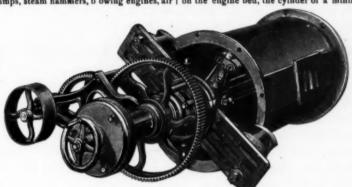
ST. IOHN'S CYLINDER PACKING

screw, are made of cast steel and are fitted. for doing very rapid and exact work. The machine is made in as many as 28 different sizes.

This cut shows the portable cylinder boring machine re-boring in its present position on the engine bed, the cyinder of a mining

the cylinder, and the bearings for it, bar and | throughout Pennsylvania and have made great progress in other sections. They are among the special products of Pedrick & Ayer, proprietors of the L. B. Flanders Machine Works at No. 1,025 Hamilton street, Philadelphia.

> THE Seneca Falls, (N. Y.) Reveille, referring to the fact that the Silsby Manufacturing Co., of that city, have commenced the manufacture of steam heaters, savs: "Looking into the subject of steam heating, the Silsby company found that a demand springing up for a simple and cheap lowpressure steam generator which could be places in small and medium sized dwellings, with the necessary piping and radiators, at a moderate cost. They at once determined to engage in the manufacture of such a heater. finally settled on the "Comfort" heater, which was being made at Norwich, Conn by H. J. Adams, E. S. Staples and R. H. Arnold, as being the very best on the market. Negotiations were begun which resulted in the Silsbys securing the sole right to manufacture this heater, and Mesars, Staples and Arnold are now residents of this village and engaged with the Silsby company, while Mr. Adams will represent the company as traveling salesman. The advantages of steam over all the methods of ating are well known. Taking into consideration health, economy and convenience, it cannot be equalled. Any of the heaters made by the Silsby company are as easy to run as a parlor stove, and do not need looking after oftener than once or twice a

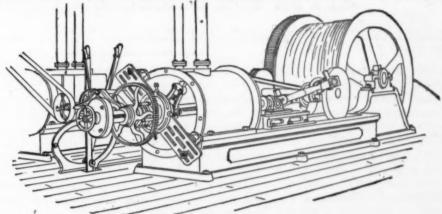


PORTABLE CYLINDER BORING MACHINE.

compressors, mining and hoisting engines, corliss valves, hydraulic and steam hoists, heavy housings, large wheels, etc. It will bore with one or both cylinder heads off, either vertical, horizontal, or inclined on the engine bed, or laying on the ground. It is so constructed that the piece being bored serves as the bed or support of the bar. It is only necessary to take off the cylinder head and remove piston, when the cylinder

engine. These machines are used for reoing in their present positions, all makes and sizes of steam engine cylinders, pumps, steam hammers, blowing engines, air compressors, mining and hoisting engines, corliss valves, hydraulic and steam hoists, heavy housings, large wheels, etc.

The accompanying cuts illustrate St. John's self-adjusting cylinder packing for steam engines, water, air, oil and amy nia pumps.



PORTABLE CYLINDER BORING MACHINE IN POSITION.

can rapidly and accurately be bored out. This saves breaking the steam joints, bolts, etc., and often cylinder can be re-bored in less time than it would take to remove cylinder from its bed.

The cutter-heads are fed by a screw in ne side of bar, and are operated by the feed-casing on the end that contains the gearing, by changing position of which two changes can be made, slow feed for rough-

A general view of the packing is shown in Fig. 1, and the sectional view in Fig. 11 shows arrangement of it. The two L-shaped rings are fitted in grooves in the bull ring, and are quite elastic, being set out against the walls of cylinder by steam. The proportions are so nicely made, and the pressure of the steam sets them so gently that scarcely any wear takes place, and they are perfectly steam tight. Friction being reduced to a

day, and then only to shake the grate and supply the magazine with fuel. No brick work is required, but the cellar is not heated. Coal and ashes do not have to be carried through the house, and dust is avoided. The heaters are automatic, and a small or medium size house can be warmed throughout with about the same consumption of fuel asi n an ordinary base-burning coal

# SHEFFIELD

### COLBERT COUNTY, ALA.

# The Iron Manufacturing Center of the South.

BEING at the head of navigation, and on the south bank of the Tennessee river, Sheffield is the natural outlet for the mineral and manufacturing products of Alabama and neighboring States and in mineral and manufacturing products of Alabama and neighboring States seeking a water route to points on the Ohio and Mississippi rivers, and to the Gulf of Mexico, as well as the best distributing point over Alabama, Eastern Mississippi and East Tennessee, South Carolina, Georgia and Florida for Northern and Western produce, groceries, provisions, machinery, &c. Four railroads certain, and several others assured. Principal shops of Memphis & Charleston Railroad will be erected here pursuant to written contract. These will employ between four hundred and five hundred mechanics, and consequently, with their families, will make an increase in population of at least two thousand people. Shops of three other railroads are contracted to be located here.

### Five Blast Furnaces Now Under Construction,

Of which one is nearly finished, and the remaining four contracted to completion next spring, have estimated capacity of 700 tons pig iron per day. This is 40 per cent. more than now manufactured at Birmingham, Alabama. Experts do not hesitate to say that iron can be manufactured more cheaply at Sheffield than at Birmingham, and its river transportation facilities will enable Sheffield iron to reach the principal markets at a saving of from

### **\$2.00 TO \$2.50 PER TON.**

A first-class semi-weekly newspaper, printed by steam, is regularly issued. Furniture Factory, Bottling Works, Bakery, 3 Steam Brick Works, 2 Hand Brick Works, 2 Steam Wood-Working Establishments, Water Works, 2 Banks, a Savings Bank, and Steam Job Printing Office already in successful operation, and Iron Pipe Works, 15-ton Ice Machine and five-story hotel, with all modern appliances, will be erected. The Cleveland Hotel, Park House and numerous boarding houses furnish accommodations to travelers. Postoffice, Telegraph Office and Express Office already established. Contracts have been made for the early erection of Electric Light Works, Paint Works, Agricultural Implement and Machine Works and Cotton Compress. Large Stove Works, Machine Shops, additional Iron Blast Furnaces, an extensive Charcoal and Chemical Plant, a large Rolling Mill and other manufacturing establishments under consideration, and will probably be built shortly.

Good Water. Free Public Schools and Churches. Health and Climate Unsurpassed. Drainage excellent. Splendid opening for men of push and energy. No "Old Fogy" element here. No better point for profitable investment.

### **Sites** for Manufacturing Enterprises,\*

And for Free Public Schools and Churches

Donated by Sheffield Land, Iron & Coal Company.

Population January 1st, 1887, 700; now, (August 21st, 1887,) by actual count, 2,583. Increase of population, 300 per cent. in eight months, and only limited by accommodations.

Three years ago the site of Sheffield was cultivated as corn and cotton plantations, and was without a railroad. Numerous two and three-story brick business houses, and one and two-story dwellings have been, and are being erected. The class of buildings will compare favorably with those in cities of 20,000 [inhabitants.

LIMESTONE of excellent quality for fluxing iron in unlimited quantities at the furnaces' sites. First-class building stone and brick clay abundant. Rich and extensive deposits of brown hematite iron ore within twenty miles, along the lines of two Sheffield railroads. The Sheffield & Birmingham Railroad runs through the heart of the Warrior Coal Fields, which abound in first-class coking, steam, gas and grate coal. Timber is abundant and cheap.

The Memphis & Charleston Railroad and the Sheffield & Birmingham Railroad are now in operation into Sheffield. The Louisville & Nashville Railroad Co. is now extending its Nashville, Florence and Sheffield division, which will be completed to Sheffield before the class of the year 1887. Surveys of three other milroads have been recently exampled.

pleted to Sheffield before the close of the year 1887. Surveys of three other railroads have been recently completed to Sheffield, which will soon be the best combined river and railroad transportation center in the South.

Every merchant and every established manufacturing enterprise is doing a profitable business. More are needed. For further information address

ALFRED H. MOSES, Vice-Prest. and Manager

Sheffield Land, Iron & Coal Co., - Sheffield, Ala.

# Tuskaloosa, Ala.

Ньавама's Папикаь Ріппевикен. \*

## A Railroad & River Town of 6,000 Inhabitants, in the Coal, Iron & Timber District.

Healthful Location. Salubrious Climate. School Facilities Unequaled by any other town in the South.

+ SITUATED ON +

## **Q**ueen & Crescent

TRUNK LINE,

Warrior Coal Field

AND ON THE

WARRIOR RIVER.

Only Navigable River touching the

Alabama Mineral Field.

Right Months Navigation. Being Surveyed now to be opened all the year round. All Water Navigation to

MOBILE \*

AND TH

Entire Gulf and Atlantic Coasts.

THE

- Tuskaloosa Northern Railroad →

Is now under construction into the

MINERAL of TIMBER FIELDS.

O-THE-O

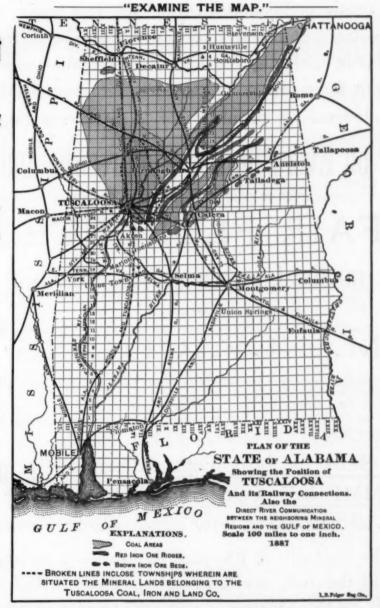
Macon & Puskaloosa Railroad

Will soon be building into the

COTTON REGION OF MISSISSIPPI.

Fine Farming Region

Around and Below the City.



Superior Inducements

+ ADVANTAGES +

Manufactories Consuming

WOOD, •
IRON,
COTTON.

FINE GOKING GOAL

In workable veins near city, fully tested.

≪The Fire Ctay

Existing in inexhaustible quantities, has been practically tested and pronounced.

The Best yet Discovered in the South.

Street Car and Dummy Lines NOW BUILDING.

Water Works and Electric Lights -

COTTON MILL

In Successful Operation.

ALSO

LIARGE BRICK WORKS

Manufacturers Seeking Locations in the South have here

## THE COLDEN OPPORTUNITY.

Many have availed themselves of it, but such is the wonderful richness of the resources of this section that there is

ROOM FOR ALL

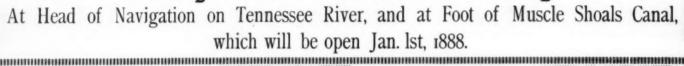
# Tuskaloosa Coal, Iron & Land Co.,

Owning 4,600 acres of city and suburban property, and 40,000 acres of mineral and timber lands, offers liberal inducements to manufacturers to locate at Tuskaloosa, Nature's City, and invites correspondence and the fullest investigation of its claims. Address

W. C. JEMISON, President Tuskaloosa Coal, Iron & Land Co., TUSKALOOSA, ALA

# Florence, Ala.

County Seat of Lauderdale County.



SITUATED on a gently undulating Plateau, 200 feet above high-water mark, surrounded by three large creeks of pure free-stone water. It has a Court House, Two Colleges, Four Public Schools, Six Churches, beautiful wide streets, graded and graveled, and shaded with forest trees; Hotels, fine store houses, Masonic, Odd Fellows, K. of H. and L. of H. lodges. A population of 2,500—moral, social and hospitable.

# The Scenery on Every Side is Picturesque and Beautiful.

SO MUCH SO THAT IT IS CALLED BY VISITORS

## \* 'FAIR FLORENCE."

There is no Place on the Continent more Healthful and Salubrious.

### \* MANUFACTURES. \*---

Within the last six months numerous manufactures have been located here, among the number:

Five Large Blast Furnaces. One Rolling Mill, Three Planing Mills,

One Saw Mill,
One Flour Mill,
One Wooden-Ware Factory.

One Cotton Mill,
One Cotton Compress and Ice
Factory.

Two Brick Machines and Three Hand-Brick Yards.

There are Vast Beds of Iron Ore within a few miles North and IMMENSE COAL FIELDS SOUTH

ACCESSIBLE BY RAILROADS NOW BEING RAPIDLY CONSTRUCTED.

By the 1st of January the Nashville & Florence Railroad will be completed, making three lines of railroad, and the river, thus opening up VAST AREAS OF TIMBER, IRON ORE, COAL, Marble, Limestone, Kaolin, Fire-Clay, and almost every kind of mineral and product.

### THE LANDS IN THE SURROUNDING COUNTRY ARE FERTILE AND PRODUCTIVE.

All kinds of Grain, Grasses and Fruits grow to perfection. Springs and Water Courses are numerous, and grazing for Cattle is abundant for eight months of the year.

Pamphlets and maps furnished on application to

Florence Land, Mining & Manufacturing Company.

GADSDEN, ALA.

Is situated on the West Bank of the COOSA RIVER, in the midst of the

# RICHEST IRON AND TIMBER SECTION

IN THE FAVORED STATE OF ALABAMA.

# → The Gadsden Land and Improvement Company <</p>

Own large tract of Eligibly Located Residence Property in the Most Desirable Part of the City, and have fine location on river and railroad for

### \* MANUFACTURING ESTABLISHMENTS,

And are offering great inducements to manufacturers to locate their plants in this FAVORED LOCALITY. No place in the South has such Wonderful Advantages. Situated in the midst of the RICHEST IRON SECTION in the STATE, at the foot of Lookout Mountain on the banks of a Navigable River, (THE BEAUTIFUL COOSA.) surrounded by Forests of the Finest Timber on the Continent, with Fine Building and Fire Clay, and the FINEST BUILDING STONE all around us, with

# Uninterrupted Health, and the Purest and Best Water and Finest Drainage of any City in the State,

Cadsden should become the Createst Manufacturing Center of Alabama.

THE Alabama Great Southern, Rome & Decatur, Tennessee & Coosa, Anniston & Cincinnati Railroads, with the ever-flowing Coosa navigable the year round, gives us as FINE TRANSPORTATION FACILITIES as any other city enjoys.

We now have Railroad Car Works, Furnaces, Foundry and Machine Works, Saw Mills, Sash,
Door and Blind Factory, Furniture Factory, Ice Factory, Paint Mills, Crist and
Flouring Mills, Cotton Ginnery, Fine System of Water Works, Electric
Lights, Telephone Communication over City, and also to
neighboring cities Atlanta and Rome, Ga.

WE WANT Rolling Mills, Bridge and Bolt Works Cotton Factories, Woolen Mills, Furniture Factories, in fact all kinds of Factories, even Coffin Factories, (but we want to ship the Coffins to some of the other booming cities.)

Liberal Grants of Land will be made by The Gadsden Land and Improvement Co. to any of the above-named industries.

FOR FURTHER PARTICULARS ADDRESS

M. L. FOSTER, Sec. & Treas.

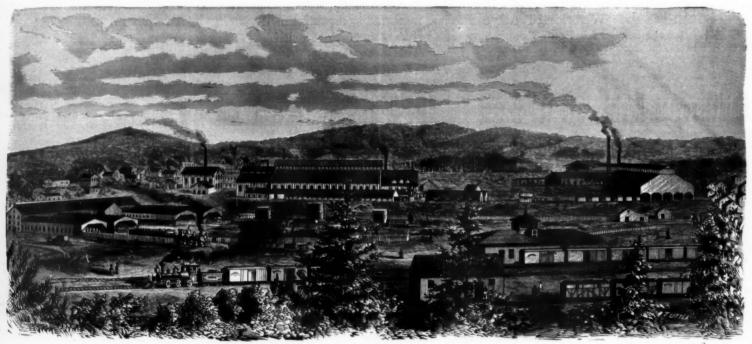
The Gadsden Land and Improvement Co., · Gadsden, Ala.

POST-OFFICE BOX 145.

# NNISTON, ALA

## "The Model City of the South."

HERE is no healthier or more charming place of residence in America than Anniston; built on the slope of one of the highest of the chain of the Blue Ridge in Alabama, it commands scenery that is unapproachable in the State. Nature could not have formed a more beautiful place for man to build a city or given greater natural advantages. The natural drainage is most thorough and complete, while in addition the city is preparing a system of underground sewerage. A more delightful and invigorating climate cannot be found anywhere: mild in winter, cool in summer, a thousand feet above the tulf, with the high and broken chain, range after range in the east, Blue Mountain in the north, Coldwater Mountain in the southwest, make Anniston the coolest, healthiest and most attrictive of any city in the South. It has the richest agricultural country surrounding and tributary to it in the State, to support a manufacturing and mercantile population. The mountain sides will grow the grape and every kind of large and small fruit to perfection, and the valleys every product of diversified farming. It is in the heart of the richest mineral district of the South, and commands the great fields of brown hematite ores on which the great and successful manufacture of iron must in the end depend for quality and profit in every branch of most skillful and best manufactures of iron and steel. It has tributary to it the best and most extensive pine forests in North Alabama, that are reached by roads owned and controlled by Anniston citizens, while it has secured to its industries the very best coal mines and coking coal in Alabama. There is no city in America, in proportion to population, that has the manufactures of Anniston, or employs as many working men, or does a larger mercantale business. The industries already in full and profitable operation in Anniston are the two Woodstock Furnaces and coking coal in Alabama. There is no city in America, in proportion to population, that has the manufactures of Anniston, producing nearly as much



CAR WORKS, ROLLING MILL AND BLAST FURNACES-ANNISTON.

The Steel Bloomery, for the production of Steel Biooms, is nearly completed, and the Fire-Brick Works of Taylor & Sons are ready for operation. The Ninety-Inch Morse Cotton Compress, with its warehouses, will be ready to receive the coming crop. Forty thousand bales, it is estimated, will be secured to Anniston from the territory that its system of railroads have opened up. The completion of the Anniston & Cincinnati Railroad during the present year, that will be owned and controlled by Anniston's citizens, opens up new territory and forms a New and Shorter Grand Trunk Line to Cincinnati and the great Northwest, and to the Southwest via New Orleans and Shreveport.

It is only the profits of business and labor that can add to the wealth of a community, add to or maintain the value of real estate, and add to the prosperity of its people. Having this in view, every industry and business in Anniston is established on a profitable basis. All its merchants are doing a large and profitable business, far larger than they prepared for or anticipated; it is the same with the manufacturers, while not a dollar of debt has been created, either by issue of a bond or placing of a mortgage on any of its old or new industries, leaving their earnings free from fixed charges that must be paid in times of depression as well as of prosperity. To the investor, either in business, manufacturing or real estate, nowhere else are presented opportunities as safe, secure and certain as at Anniston, or where they can rest on as healthy and solid foundation. It has trunk line railroad communication with all parts of the United States, and freight rates with the most favored of Southern cities. Two lines of railroads are owned and controlled in the interest of Anniston by its own citizens. It has the best system of Water Works, with the purest well water from three hundred feet below the surface, drawn from white quarts sand and gravel, and distributed through the city, with a pressure of 100 pounds to the inch, from a reservoir always full,

of their property and profits of their business.

The Anniston City Land Company, or the Bureau of Information, will give any information desired when applied to, and invite all wishing a charming place in which to live, to do business or to make profitable investments, to visit

# \*\*\*CONSTRUCTION DEPARTMENT.\*\*\*

E PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

#### ALABAMA.

Anniston.—If the contemplated car and locomotive works previously reported as probably to be started in connection with Noble Bros. car wheel and car works are established. Mr. John Noble intends to build a new rolling mill. Reported that the plans for the new car works, to employ 1,200 or more hands, have been about consummated.

Birmingham —It is rumored that a large iron furnace will be erected.

Birmingham.—The Lake Superior Land Co. has been organized with John T. Reed as president, and W. S. Brown, secretary and treasurer.

Birmingham.—M. Williams will erect a \$7,000 addition to his property on Eighteenth street.

Birmingham.—The Magic City Hotel Co. are building a three-story brick hotel to cost \$11,000.

Birmingham.—Bids for erecting a twostory building, 75x300 feet, are being received by Sutcliffe & Armstrong.

Decatur.—The Louisville & Nashville Railroad Co., previously reported as to build large machine shops, will receive bids for their erection until November 10. Address R. Montfort, resident engineer, Louisville, Ky.

Decatur.—It is reported that a building will be erected to furnish shop room and power for small manufactories. If correct the Decatur Land, Improvement & Furnace Co. can probably give information.

Decatur.—A stock company will be formed to build gas works. The Decatur Land, Improvement & Furnace Co. can probably give information.

Decatur.—Frank O'Brien, of Birmingham, has contracted to build the \$100,000 opera house lately mentioned as to be erected by the Decatur Land, Improvement & Furnace Co.

Decatur.—A grist mill is being erected by W. W. Fulghum. The capacity will be about 500 bushels per day.

Gadsden.—Felix Leonard contemplates erecting a grist mill.

Huntsville.—The North Alabama Improvement Co. will enlarge their Monte Sano Hotel and build a number of cottages.

Huntsville.—N. M. Johnson is erecting a corn and feed mill.

Jackson.—Messrs. Jones & Bailey are prospecting for silver ores.

Leeds.—Machinery has been purchased for a saw mill.

McCalla.—A saw and grist mill is being erected by Waggoner & Wallace.

Mobile.—James McArthur is erecting a box factory on Royal street. Will employ 30 hands.

Montgomery.—The report referred to last week that the Southern Cotton Oil Co. would enlarge their mill is correct. They have purchased machinery to double their capacity. Montgomery.—The Highland Park Land Co. still contemplate building a winter hotel.

Montgomery,—C. P. Rogers, of Leetohatchie, has contracted to make the preliminary surveys for the proposed Montgomery & Camden Railroad.

Opelika.—It is reported that H. D. Fisher of Jackson, Mich., will build an ice factory at some point in Alabama, probably Opelika. R. A. Mitchell, Opelika, can give particulars if anything is done.

Oxmoor.—It is reported that Samuel Thomas, president Pioneer Mining & Manufacturing Co., of Birmingham, and J. H. Woodward will build a rolling mill near Oxmoor.

Rock Mills.—The Rosedale Manufacturing Co., reported last week as to put in new machinery, are adding 80 looms, &c., and expect to make twilled duck. This company succeeds the Wehadkee Manufacturing Co., previously mentioned.

Sheffield.—The Sheffield Marble & Phosphate Co., capital stock \$100,000, has, it is reported, been formed.

Sherman.—A steam grist mill and gin has been erected near Sherman by Mr. Mangum.

Talladega.—It is reported that Michigan parties contemplate starting several enterprises. If anything is done the Talladega Land & Improvement Co. can give particulars.

Tuskaloosa.—The Tuskaloosa Lumber Co. has been organized with a capital st ck of \$45,000.

Union Springs.—The company reported last week as to establish a spoke and handle factory has been organized by H. R. Dudley and others. Machinery for the factory is now being added to the planing mill of Mr. Dudley.

ARKANSAS.

Arkadelphia.—The Arkadelphia Lumber Co. have, it is stated, put planing machinery in their mill.

Arkansas—The Salem Iron Works, of Salem, N. C., contemplate starting branch works at some point in Arkansas.

Bear,—The Old Bear Mountain Mining Co. are developing mines.

Dallas.—Lee Worthington has sold an interest in his mines to Hopkins Bros., of Illinois, who will, it is stated, erect a 40-ton Bartlett smelter.

Helena,—The contract to build the 8 miles of leveeing, lately reported, has been let to J. S. McTighe & Co., of Memphis, Tenn.

Hot Springs.—The Waverly Mining Co. are developing mines to miles from Hot Springs.

Hot Springs.—J. L. Ford will move his steam laundry from Pine Bluff to Hot Springs.

Little Rock.—Joseph Dart, representing James E. Reynolds & Co., of Brooklyn, N. Y., and others, have been examining the Quapaw Cotton Mills, with a view to purchasing and putting them in operation. If purchased the manufacture of sheeting will be added.

Little Rock.—The Little Rock Dummy Railroad Co. is being organized. C. M. Butler and E. W. Gibb are probably interested.

Montgomery County.—The Spanish Dig Mining Co. of Riverton, Neb., will develop mines in Montgomery county. They propose to begin operations at once.

Mountain View.—H. Ramsey has purchased a site to build a hotel.

Paragould. — The Paragould & Buffalo Island Railway Co., reported last week, will

complete their road to the St. Francis river by January 1, and contemplate extending it 16 miles further to Cotton Plant, Mo.

Powhatan.—James P. Coffin will receive proposals for building a courthouse until December 5. \$10,000 has been appropriated for the building by the county court. They are talking of building an iron bridge to cost about \$15,000.

Texarkana,—The Texarkana Ice Co., previously reported as to put in a 25-ton machine, will increase their capital stock \$30,000.

FLORIDA.

Apopka.—C. A. Hege will, it is stated, build a hotel.

Apopka.—A cigar factory and a steam laundry are talked of.

Bluff Springs.—The Pritchett Gin Co. has been formed.

Bridgeport.—Jacob Hochstrasser, of Berne, N. Y., will build a hotel.

DeFuniak Springs,—The DeFuniak Lumber Co. have erected a saw mill with a daily capacity of about 30,000 feet, and have purchased machinery to build a planing mill. Will also build a pole road,

DeFuniak Springs. — The DeFuniak Springs Woolen & Cotton Manufacturing Co, capital stock \$25,000, has been organized. A site for their mill has been selected. C. C. Banfill can give information.

Glen St. Mary.—A saw mill has been erected.

Jacksonville.—A. O. Buck is reported as erecting a carriage factory.

Lake City.—The Florida Tobacco Producing & Trading Co., lately reported as chartered, will erect buildings for packing purposes, warehouses, &c.

Macclenny.—F. A. Miller, of Philadelphia, Pa., has started a cigar factory.

Macclenny,—Edwin S. Shuey and others are organizing a \$25,000 stock company to erect a 10-ton ice factory and a cold storage warehouse.

Macclenny.—A gin and cotton compress has been erected at a cost of \$10,000.

Marianna.—The Chipola Hotel Co, are preparing to build a hotel,

Orange City.—J. F. Brown is making arrangements to build a hotel.

Palatka.—The Palatka, Lake Harris & Gulf Railroad, reported last week, has been chartered by J. A. Larned and O. W. Bromwell, of Palatka, and William B. Hayes, of New York. It will extend from Palatka to the Manatee river at Palmetto.

Palatka.—Sherman Conant, Charles B. Fenwick, W. P. Couper and J. H. Farrington have chartered the Palatka, Welatka & Lake Railroad Co., to build a railroad from Palatka to the St. John's & Lake Eustis Railroad, with a branch to Georgetown.

Pensacola.—The Pensacola Board of Health, W. K. Hyer, president, are investigating the Waring system of sewerage with a view to its adoption.

Pensacola.—A shoe factory is reported to be established.

Pensacola.—The Pensacola Gulf, Land & Development Co., previously reported, are negotiating for the establishment of car works.

Quincy.—A cigar factory is to be established by Charles Vogt.

Silver Springs.—George S. Mayo is building a laundry.

St. Augustine,—The St. Augustine Improvement Co. will erect wood-working machinery.

Tarpon Springs.—W. H. Veale and Mr. Varnedoe, of St. Augustine, have received the contract to grade and furnish cross-ties for the extension of the Orange Belt Railroad from Tarpon Springs to Petersburg, 17 miles.

Abbeville.—There is talk of a cotton factory being erected,

Atlanta.—The Cooper Piano Manufacturing Co. will, is is said, start a factory soon.

Atlanta.—Broomhead & Shut have contracted to erect a building for Spelman Seminary to cost about \$10,000.

Augusta.—The Druid Park Land Co., capital stock \$200,000, has been incorporated by James P. Verdery, Patrick Walsch, Boykin Wright, W C. Sibley, John L. Maxwell, Charles Estes and others. The company is privileged to build street railroads.

Augusta — The Thompson Houston Electric Light Co. are, it is reported, building new works.

Augusta.—George R. Lombard & Co. are enlarging their foundry, machine and boiler works by an addition 70x200 feet and one 50x150 feet, and are erecting a two-story building, 30x60x70 feet, for storage purposes.

Brunswick.—It is reported that the Brunswick & Western Railroad Co. will spend \$500,000 in improving their road-bed and purchasing additional rolling stock.

Calvary.—James J. Higdon will rebuild his saw mill reported last week as burned if he can purchase machinery satisfactorily.

Canton,—Pickens county will build a courthouse to cost about \$10,000. Samuel Tate, C. B. Vincent and others have been appointed a committee to superintend its construction.

Cartersville.—Wikle & Wilkes contemplate starting a steam laundry and want bids on a 10 horse-power engine and machinery,

Chauncey.— A. B. Steele will rebuild his dry kiln reported last week as burned.

Conyers.—The Conyers Gold & Granite Co., reported last week, are opening a granite quarry.

Dooly County.—A town to be called Cordele will be started at the junction of the Americus, Preston & Lumpkin Railroad with the Georgia, Southern & Florida Railroad.

Dublin,—Thomas H. Rowe will rebuild his gin reported last week as burned.

Elberton.—Efforts are being made to se

Fayetteville.—Bids for enlarging and improving the courthause will be received until November 28 by L. F. Blalock.

Jackson.-H. P Almand is making arrangements to start a fertilizer factory.

Macon.—There are prospects of car works being erected at Enterprise. Payne & Willingham can probably give information.

Macon,—Payne & Willingham have built an addition to their furniture factory.

Midville,—Allen W. Jones has rebuilt his gin reported last week as burned.

Perry. — The Perry Manufacturing Co. have decided not to move their factory to Macon as lately stated.

Rome.—The Rome & Carrollton Construction Co. have, it is said, let the contract to build the 100 miles of the Chattanooga, Rome & Columbus Railroad, lately reported, to Lee, Garsey & Underdunk.

Savannah — The Savannah Street & Rural Resort Railroad Co., previously reported, are about to commence work on their road. The cost is estimated to be about \$100,000.

Savannah.—The Birmingham & Atlanta Air-Line Railroad Co., the Birmingham, Georgia & Florida Railroad Co. and the Macon, Lagrange & Birmingham Railroad Co. will probably consolidate

Tallapoosa.—The Tallopoosa Land, Mining & Manufacturing Co. are negotiating with parties to develop marble quarries. Tallapoosa.—It is reported that M. E. Cason, of Hodges, S. C., will erect a large five-story building and will build a dry kiln.

Tallapoosa,—The Tallapoosa Land, Mining & Manufacturing Co. have discovered tin ore on their lands and will develop it if investigations prove satisfactory.

Tallapoosa,—The Tallapoosa Land, Mining & Manufacturing Co. are negotiating with Mr. Sloss, of Birmingham, for the erection of an iron furnace and steel bloomary.

Tallapoosa.—The Tallapoosa Machine & Foundry Co, have ordered machinery for their foundry and machine shop.

#### KENTUCKY.

Ashland.—An electric light plant is projected. If anything is done the mayor can probably give information.

Ashland.— Efforts will be made to organize a stock company to start a stove foundry. J. M. Huff can probably give information.

Bowling Green.—The committee reported last week as appointed to receive bids for an electric light plant have contracted for a Jenney plant.

Hawesville.—The Hawesville & Pellville Mineral Railroad Co., previously reported, have organized with D. L. Adair as president, and Robert Winn, of Pellville, secretary.

Louisville.—The German Insurance Bank are erecting a \$25,000 building on Market street.

Louisville.—A \$10,000 tabernacle will be built on Broadway. John B. McFerren can give particulars.

Louisville.—The Ohio Valley Press Brick Co. have changed their name to the Hydraulic Press Brick Co., and increased their capital stock to \$150,000.

Louisville.—The Louisville Asphalt Varnish Co, have built new works at a cost of \$16,000.

Nicholasville.—Iron ore has been found on the land of H. Crow and will probably be developed.

Pineville,—Bell county has appropriated \$25,000 for a new courthouse.

Powell County.—A saw mill is being erected by C. C. Eastin & Sons.

Riverton.—It is reported, but not confirmed, that the East Kentucky Railroad Co. will extend their road to Bristol Tenn.

Williamsburg,—A Baptist college is to be erected. R. C. Medaris can give particulars.

Winchester.—One or more propositions to build water works will shortly be made.

#### LOUISIANA.

Crowley.—The contract to build the jail, previously reported, has been let to J. J. Hannon at \$4,000.

Gretna,—H. P. Fournet will rebuild his large steam ginnery, reported last week as burned; loss \$40,000.

New Orleans,—T. H. Sampson is purchasing machinery to establish a furniture factory.

New Orleans.—The large building recently reported to be erected by I. L. Lyon & Co. will be six stories, 44x109 feet, with an L 100 feet deep.

New Orleans.—The Southern Installment Manufacturing Co., capital stock \$50,000, has been chartered with Ernest Perkins, Elmer E. Perkins, Horace W. Allen, Charles A. Robinson and Samuel L. Berry as directors. Ernest Perkins is president. The company will manufacture silverware.

New Orleans.—The Pelican Brewing Co., capital stock \$100,000, has been incorporated with Albert Erath, Henry Albert, E. Vergnes, John Behrens and Fred, D. Decker as directors, Will build a brewery on Villerre street.

Pattersonville.—Pharr & Williams will put in a band saw.

Plaquemine. — The Cypress Shingle & Lumber Co. will, it is reported, enlarge their mill.

#### MARYLAND.

Baltimore.—Mason R. Stone will erect 19 two-story buildings on Biddle street near Chester.

Baltimore.—W. R Llewellyn will build 8 two-story houses on Biddle street and 16 two-story houses on Neura street near Chester.

Baltimore.—The Waterhouse Electric Co., lately reported as to be chartered, has a capital stock of \$250,000. The directors are Robert R. Zell, of New York; William R. Pope, Frank G. Waterhouse, Albert L. Gorter, Henry S. Zell and others.

Baltimore.—The John Ryan Co., capital stock \$50,000, has been formed to succeed John Ryan & Co. and operate their type foundry.

Baltimore.—Smith & Wilbur will build 10 two-story houses on Patapsco street near Clement.

Baltimore.—The contract to build a retaining wall along the Falls road from Maryland avenue to Boundary avenue has been let to Tracey & Nardin at \$12,680.63.

Baltimore,—J. A. McCreary & Co. will rebuild their lamp black factory reported in this issue as burned.

Easton.—Hubbard Bros. will erect a canning factory by next year. They have procured a site.

Hollins.—It is proposed to form the Caves & Worthington Valley Railroad Co. to extend the Green Spring branch of the Northern Central Railroad (office, Central Building, Baltimore).

Lonaconing.—Davin M. Evans will rebuild his saw mill near Lonaconing reported in this issue as burned.

Mechanicstown. — It is rumored that Daniel Miller & Co., of Baltimore, will start a large shirt factory.

Middletown.—The South Mountain Creamery Co; will erect a new building, two stories, 30x100 feet.

Ocean.—The Consolidation Coal Co, are driving a new slope to drain their mines, and are making other improvements.

Point of Rocks.—P. W. Mercer is building a grain elevator.

Snow Hill.—Messrs. Collins, Vincent and Purnell will erect an electric light plant at once.

Washington, D. C.—A. L. Case will erect 7 brick dwellings on R and Seventeenth streets, N. W., to cost \$33,000. E. Woltz will build 2 brick dwellings on C street, N. W., at a cost of \$10,000.

Washington, D. C.—The Belt Line Street Railroad Co. will run their cars by electricity as soon as permit from Congress can be secured.

Washington, D. C.—James K. Cleary, William A. Gordon and others have incorporated the Columbia Case Co., capital stock \$25,000.

Washington, D. C.—Washington McLean will erect a brick dwelling on I street and two brick dwellings on Fifthteenth street, N. W. They will cost \$50,000.

Washington, D. C.—The Critic Publishing Co., capital stock \$100,000, has been incorporated by Halbert Kilbourn, W. F. Mattingly, Samuel Cross, A. T. Britton and others.

Washington, D. C.—L. P. Morton will erect a tenement house at H and Fifthteenth streets to cost \$250,000.

Washington, D. C.—The Columbia Light, Power & Heat Co., capital stock \$200,000, has, it is said, been incorporated by W. C. Turner and C. M. Coon.

Washington, D. C.—Charles Heurich and others are organizing a stock company to build the large brewery, previously reported.

Washington, D. C.—J. H. Gordon will erect a \$10,500 brick dwelling at 3028 Q street. N. W.

Westminster.—J. F. Rinker contemplates forming a company to start a creamery.

#### MISSISSIPPI.

Bay St. Louis.—W. H. Hardy will build a \$7,000 hotel at Gulf Port, 3 miles from Bay St. Louis.

Meridian — Dunn Bros., of Birmingham, Ala., previously reported as contracting to grade 56 miles of the Warrior Coal Fields Railroad, has let the contract for the cross ties to G. H. Howell, of Birmingham.

Vicksburg.—About \$30,000 have been secured towards organizing a company to erect a cotton factory.

Vicksburg.—The Hill City Electric Light Co. will probably enlarge their plant.

Vicksburg—A company is being formed to erect a large fire-proof warehouse, 84x160 feet.

Vicksburg,—The Armour Packing Co., of Chicago, Ill., contemplate building a twostory brick warehouse, 60x100 feet, to cost about \$7,000.

#### NORTH CAROLINA.

Big Falls.—The Big Falls Cotton Mills, previously reported as to build a mill, have purchased machinery. J. V. Pomeroy is president, and J. H. Harden, secretary and treasurer.

Charlotte.—The Richmond & Danville Railroad Co. will shortly begin work on a new depot to cost \$15,000.

Cronley.—The Acme Manufacturing Co. will build a short railroad.

Durham.—The Enterprise Land & Trust Co., capital stock \$50,000, has been organized with John C. Angier, William M. Morgan, Samuel T. Morgan, W. B. Davie and William A. Guthrie as directors.

Edenton.—W. V. Elliott, of Lee's Mills, has been prospecting with a view to starting a machine shop.

Enochville.—S. M. Furr and others have been appointed a committee to negotiate for the rebuilding of the flouring and planing mill of Plaster & Lipe, lately mentioned as burned.

Fayetteville.—Trainor & Wire, of Philadelphia, Pa., are arranging to take the output of several saw mills, and will probably erect a planing mill.

Greenville.—T. M. Avery has bought the Mansion House and will improve it, put in elevators, electric lights, &c.

Henderson.—Plans and specifications have been prepared for the large tobacco warehouse reported last week to be built. It will be 100x200 feet.

Hickory.—Messrs. Campbell and Browder have received the contract to build the hotel previously reported.

Moore County.—The Tilden gold mine has been reopened.

Nash County.—A \$700,000 stock company has been organized to develop the Mann-Arrington gold mine. Will begin operations at once and will erect a 20-stamp mill. D. W. Lyon, of Raleigh, is secretary and treasurer.

Newberne.—Alexander Justice has purchased machinery to start a cracker factory.

Raleigh.—John C. Winder, president Durham & Northern Railway Co., will receive until November 1 proposals for grading and furnishing cross-ties and trestle timbers for 12 miles of road from Durham and 10 miles from Henderson.

Rockcut.—II. L. Kincaid has moved his lumber mill to Rockcut.

Salisbury.—The plant at the Concord mine is being rearranged.

Salisbury.—New pumps and hoisting machinery will be erected at the Barrington gold mine.

Salisbury.—Reed & Morgan are opening gold mine.

Salem.—E. M. L'ght will rebuild his saw mill at Waughtown reported last week as burned.

Statesville.—An agricultural implement factory will be erected. J. P. Caldwell can probably give information. Thomasville,—The Piedmont Reduction Co. will erect the electric light plant reported last week.

Tyra.—A stamp mill will shortly be erected at the Monroe gold mine near Tyra.

Winston,—It is stated that partial arrangements have been made for the building of an iron furnace near Winston. George W. Henshaw can give information if true.

Winston.—The Winston Land & Improvement Co. is being organized. George W. Henshaw can give information.

#### SOUTH CAROLINA

Camden.—H. G. Carrison will rebuild his gin reported last week as burned.

Columbia.—L. J. Wagner, of Rome, Ga., will probably contract to increase the water supply of the city by sinking artesian wells.

Greenville.—Messrs. Collins and Brake, of Gainesville, Ga., have been prospecting with a view to establishing a shoe factory.

Greenville.—Dantzler & Mackey have purchased the furniture factory of R. M. Pickens & Son and will enlarge its capacity.

Jackson Station.—Jesse H. Bradley will rebuild his grist mill and gin reported in this issue as burned. Wants to purchase necessary machinery.

Marion.—The Elm City Iron Works have increased their capital stock and will double their capacity,

Spartanburg — Messrs. Moffett, Hodgkins & Clarke, of Watertown, N. Y., previously reported as contracting to build water works, have, with Frank Watts and Francis S. Pecke, of Watertown, and Edwin A. Bursingame, of Providence, R. I., incorporated the Spartanburg Water Works Co., capital stock \$100,000.

Sumter.—J. Rytenburg & Sons will, it is reported, start brick works next spring.

#### TENNESSEE.

Athens,—The Athens Mining & Manufacturing Co. have accepted plans for their hotel previously reported.

Athens—The Athens Mining & Manufacturing Co., previously reported as to build several factories, will probably begin work on a cotton factory first.

Athens.—Mr. Moore, of Ohio, will, it is reported, move his chair factory to Athens. The Athens Mining & Manufacturing Co. can give particulars if correct.

Athens,—The Athens Mining & Manufacturing Co, have awarded the contract for building the water works previously reported to Nashville parties.

Chattanooga.—M. C. Chambers will erect a three-story brick building on Ninth street to cost \$10,000.

Chattanooga.—The Lookout Ice Co. have asked for permit to erect a storage building with a capacity of 2,000 tons.

Chattanooga.—Proposals for building a twelve-room brick school building will be received until November 1 by H. Schwartz.

Chattanooga. — The county courthouse have ordered two iron bridges to be built at a cost of about \$1,100 each.

Chattanooga.—Henry O. Wayne, John F.

Day and G. D. Howell, of Paducah, Ky., have purchased a site from W. K. Burton & Co. to erect 20 cottages. Chattanooga.—F. H. Foster, of Cincin-

Chattanooga.—F. H. Foster, of Cincinnati, O., is negotiating for the removal of his builders' hardware factory to Chattanooga, previously reported.

Cleveland.—There is talk of an electric light plant and a cigar factory being established. The mayor can give information when anything is done.

Columbia.—W. A. Settle, of Clarksville, and others are organizing a \$20,000 stock company to build an ice factory.

Erin.—Harris & Buquo will build an additional lime kiln.

Jackson. — M. P. Woody contemplates establishing a hub and spoke factory, and is now organizing a stock company.

lackson.-The name of the \$100,000 stock company reported last week as to be formed to establish manufactories will be the Jackson Building & Manufacturing Association. W. P. Robertson is interested.

Knoxville,-E. B. Stone, of Wabash, Ind., has bought the furniture factory of William Caswell and will organize a stock company to enlarge it.

Loudon.-Hood & Robinson have started works to manufacture fire-proof bricks.

Memphis.-R. L. Cochran & Co., lately mentioned as making extensive improve ments to their saw mill, are building a box factory and planing mill.

Nashville.-The Nashville Steel, Iron & Charcoal Co. have contracted with the Lawrence Iron Co., of Lawrence county, for ore for their two furnaces to be built at West Nashville.

Nashville.-B. Lanier and others have chartered the Southern Transfer & Storage Co.

Nashville,-The Nashville Roofing Co. has been incorporated by H. F. Watson, F. T. Reid, W. L. Watson, J. P. Prutzman, as Foster and A. W. Shrayer.

South Pittsburg .- T. M. Smiley & Co. have purchased the Dumwoody Mills and will make some improvements.

St. Joseph.-The Iron City Co., lately reported as organized to establish a manufacturing town near St. Joseph to be called Iron City, has been organized with J. T. Craik as president; H. G. Evans, vicepresident; W. E. Bailey, secretary; George Childress, treasurer, and Thomas Sharp, The company propose to build a manager. hotel, one or more charcoal furnaces, etc.

Trundle's Cross Roads .- George N. Wade will rebuild his flour mill reported in this issue as burned, and wants information as to bubes

#### TEXAS.

Atlanta, - The Farmers' Alliance will build a flour mill at a cost of \$15,000.

Brenham.-Fisher & Weis have ordered machinery to rebuild their steam sausage factory reported in this issue as burned.

Corsicana.—Parties have been prospecting with a view to building an iron foundry. The mayor can probably give information if anything is done.

Dallas .- Parties have been corresponding with the mayor in regard to the establishment of a rolling mill and shot tower.

Dallas.-Henry Pollock will erect a twostory trunk factory, 50x100 feet, corner of Gibbs and Sumpter streets. The building will cost \$10,000.

Dallas.-Seth Miller and associates have asked for permit to erect an electric light plant.

Decatur. -It is rumored that the Fort Worth & Denver Railroad Co., (office, Fort Worth) are making the preliminary arrangements to build a railroad from Decatur to

Denison.-It is reported that Munson Bros. will erect a three-story building to be used as a hotel.

Denton.-The Denton Mill & Elevator Co. have lately improved their mill.

Dexter.-James Marshall has put roller machinery in his flour mill.

El Paso,-W. M. Campbell, of St. Paul, Minn., has been prospecting with a view to

establishing a foundry and machine shop. Fort Worth,-The Catholics will erect a large brick school building.

Fort Worth.-C. C. Fitzgerald, of Brooklyn, N. Y., has made a proposition to lease the water works and complete them.

Gainesville, - Brady Bros, contemplate building a new and larger (flour) mill next spring.

Galveston.-The Texas Standard Oil Co. have nearly completed their works,

Galveston.-The committe on public property invite plans and specifications until November to for a city hall of the following dimensions: front 45 feet, three stories, to run back 140 feet, from thence two stories to extend 120 feet. The cost is not to exceed \$40,000.

Galveston .- E. Ketchum, W. H. Willes, G. B. Miller and Walter Gresham contem plate forming a \$100,000 stock company to furnish the city and private parties with dirt for filling up streets, &c. They will build a railroad if the company is formed.

Galveston.-The Galveston Soap & Manufacturing Co., eapital stock \$100,000, has been incorporated by R. S. Willis, George Seally, I. M. Brown, B. Adoue, W. H. Willis. H. C. Lange and J. E. Wallace, The company will soon erect buildings.

Gonzales.-The city will erect a brick or stone school building to cost not more than \$10,000. E. Titcombe will give particulars.

Henrietta,-A stock company is reported to be organized to open coal mines. Thomas Holmden is interested.

Laredo.-St. Louis parties have asked for permit to erect an electric light plant. The mayor can give information.

Laredo.- A. C. McLane has asked for permit to build a street railroad.

Marble Falls.-A company has been or ganized to test certain beds of clay and if satisfactory will manufacture pottery, &c. I. I. M. Smith is manager.

Marshall.-The Marshall Street Railway Co. will at once extend their street railroad.

Marshall .- A. L. Herrick, of Bentonville, Ark., contemplates starting a pottery and jug factory. He is now testing clays,

Marysville.-It is reported that a mill to cost \$10,000 will be erected. A. G. M. Lay can probably give information, if true.

Pecos City.-M. D. Gee and Joseph Gibson will sink an artesian well near Pecos City.

San Antonio.-N. Mackey and James Smith have purchased about 2,300 acres of land 20 miles from San Antonio and near the San Antonio & Aransas Pass Railroad, and will start a brick-yard and pottery works.

San Antonio.-It is stated that William D. Bradt, of Jackson, Mich., contemplates erecting a paper mill.

Taylor.-It is rumored that the Missouri Pacific Railway Co. (office, St. Louis, Mo.,) will build car works. They have lately bought 320 acres more of land.

Waco.-The contract for the plumbing of the Government building previously reported has been awarded to Manion & Co., of New Orleans, La., at \$3 490.

Waco.-The city will decide by a popular vote on November 4th whether or not to issue bonds to build water works, previously reported.

#### VIRGINIA.

Big Stone Gap.—The South Atlantic Coal Co. will, it is stated, build coke ovens,

Danville.-There is talk of starting a spoke and handle factory.

Fortress Monroe.-The contract for furnishing the National Soldiers' Home with steam heating apparatus has been awarded to Bartlett, Hayward & Co., of Baltimore,

Halifax C. H .- J. M. Carrington and James Travers have received the contract for the trestle work of the first 10 miles of the Lynchburg & Durham Railroad.

Lynchburg.-Mrs. H. Moses will erect two three-story brick buildings on Fifth street and five on Church street.

Machipongo.-J. V. & Z. W. Dennis will rebuild next spring their saw and planing mill reported last week as burned, They will put the boilers and engine of the burned mill in their mill at Suffolk,

Norfolk.-The Suburban & City Railway & Improvement Co. will build an electrical street railroad if permit is granted.

Norfolk.-The Norfolk Southern Railroad Co. and the New York. Philadelphia & Norfolk Railroad Co. will build a wharf.

Norfolk.-A butter tray factory is proiected.

Oatlands.-Iron ore deposits on the property of George Carter are being opened up.

Pulaski City.-The Baptists will build a church,

Roanoke.-J. R. Johnson & Co.: of Richond, Va., will make a proposition to move their steam forge to Roanoke.

Roanoke.-The Virginia Packing Co. has been chartered to operate a can and canning factory with C. A. Moomaw as president. The capital stock is to be not less than \$25-000 nor more than \$100,000.

Upperville.-A creamery is to be started.

#### WEST VIRGINIA.

Belington.-George W. Curtin will erect saw mill and build a boom for logs.

Charleston .- T. P. Hayes has asked for permit to lay pipes for furnishing natural gas for domestic and manufacturing purposes.

Glenwood,-It is reported that the Glenwood Tin Mining & Manufacturing Co. have commenced work on a smelting furnace.

Ronceverte.-The Catholics will build a hurch.

Thornton.-I. C. Painter & Bro., whose saw mill was reported last week as wrecked by an explosion, will rebuild.

Wellsburg -The Gas City Oil & Gas Co. as been incorporated by John M. Cooper, J. C. Write, Charles R. Windsor, J. M. Mc-Cleary, John Reed, W. K. Brownlee and M. A Jones. The capital stock is limited to

Weston.-Water works are being agitated.

Wheeling,-The Wheeling Electrical Co. are building a new light and power station. Have contracted for machinery.

#### BUBNED.

Baltimore, Md .- The lamp black factory of J. A. McCreary & Co.; loss \$2,000. Will be rebuilt.

Brenham, Texas.-The wagon and blacksmith shop of August Lindeman; loss \$2,000.

Brenham, Texas.-The steam sausage factory of Fisher & Weis; loss \$3,000. Have ordered machinery to rebuild.

Cullman County, Ala. - The mill of Messrs. Price.

Hopkinsville, Ky .- The flouring mill of F. L. Ellis & Co.; loss about \$60,000

Huntsville, Ala.-The mill and gin of R. M. Thompson & Son, 8 miles from Huntsville: loss about \$10,000.

Jackson Station, S. C .- Jesse H. Bradley, whose gin was reported last week as burned. also lost a grist mill. He will rebuild. Lewisville, Ark .- The grist mill and gin

of Mr. Stricklin; loss \$2,000. Little Rock, Ark -The shingle mills of

C. C. Loomis. Little Rock, Ark,-The printing office of

the Evening Democrat; loss \$26,000. Livingston, Ala.-The steam mill and gin

of T. E. Locard, and the mill and gin of Mr. Gully Lonaconing, Md.-The saw mill of David

M. Evans near Lonaconing; loss \$1,500. Will be rebuilt.

Longstreet, Ga .- The saw mill of George W. Iordan, Ir.: loss \$1,000.

Mt. Crawford, Va.-The saw mill and sorghum factory of James Campbell on Naked creek.

Mt. Sterling, Ky.-The planing mill of J. W. Burton.

Petroleum, W. Va.-The oil works of S. to have ready by 1st of November. Woodward.

Pulaski County, Ga .- The saw mill of Walker Jordan

South Lake Weir, Fla.-The saw mill of Douglass & Pfann near South Lake Weir: loss \$4,000.

Texarkana, Texas.-The dry kiln of the Bowie Lumber Co.

Trundle's Cross Roads, Tenn.-The flows mill and carding machinery of George Wade; loss \$3,000. Will rebuild.

Wayland, Texas.-The mill and gin of J. A. Carroll; loss \$1,350.

The gins of G. Montjoy, Greenwood, Miss.; John S. Chapman, in Greenville ec ty, S. C.; Thomas Evans, Columbus, Miss.; W. A. Warlick, Kymulga, Ala.; P. E. Wells, Columbus, Ga.; Norwood Smith, Prattville, Ala.; Mrs. Clara Smith, near Prattville, Ala.; Orion Alliance Gin, 3 miles from Foster. Texas; D. W. Adams, Little River Academy, N. C; Wade W. Suber, Walton, S. C.; Woodson Gulley, Coatopa, Ala.; Mr. Lockard, 5 miles from Livingston, Ala.; (on) Brodie Plantation near Pine Bluff, Ark.; J. C. Weeks, Columbia, S. C.; Mr. Montge 6 miles from Franklinton, N. C.; John C Glendenning, Lincoln county, Ga; H. T. Iveys, Winterville, Miss.; Mr. Scott, Beulah, (P. O. Riverton) Miss.; Thomas Atkins, near Poplar Bluff, Ark.; James Holcomb, 12 miles from Mountain View, Ark.; D. N. Hebron, 4 miles from Vicksburg, Miss.; C. F. Berry, Concordia, Miss.; G. W. Vannatta, near Shelbyville, Tenn.: Graham Bros., Grenada. Miss; Milton Garrotson, Garrett's Landing (P. O. Star City), Ark.; B. Ruscha, near Ben ton, Miss.; Mr. Dixon, Gay Hill, Texas; Tidwell & McCright, New Boston, Texas, and H. C. Dockery, Rockingham, N. C., have been burned.

SAMPIT, S. C., Oct. 18, 1887.

Editor Manufacturers' Record

I have erected a saw mill, capacity 5,000 feet per day; cotton gin, 10 bales per day; grist mill, 200 barrels per day.

B D. BOURNE.

#### To Build a Jail.

BENTONVILLE, ARK., Oct. 17, 1887. Editor Manufacturers' Record

We are going to build a jail very soon Our county court made the levy and ordered JOHN BLACK.

### Contracted to Build Railroad.

BIRMINGHAM, ALA., Oct. 17, 1887. Editor Manufacturers' Record:

We closed contract on the 6th of this onth for graduation cross ties and track laying for the 1st section of the Warrior Coal Fields Railroad, from Meridian, Miss., to Gainesville, Ala., 561/2 miles, work to begin on the 16th. This road is to run from Meridian to Decatur, Ala.

#### To Manufacture Brick and Tiles.

RALEIGH, N. C., Oct. 18, 1887. Editor Manufacturers' Record

The Raleigh Brick & Tile Manufacturing Co. was incorporated the 26th of August, 1887, for the purpose of manufacturing brick, tiles, &c. The company expect to put in machinery for that purpose. Capital stock \$5,000, with privilege to increa \$20,000 W. A. SINEHAN, Sec.

### Glass Works to be Built.

CHATTANOOGA, TENN., Oct. 21, 1887. Editor Manufacturers' Record

The Hutchison Glass Works at Chatta nooga are a sure fact. The company will be organized next week. Plans and specifications for buildings and machinery we expect

R. C. HUTCHISON.

### MACHINERY WANTED.

[If you desire to purchase machinery of any kind con-suit our advertising columns, and if you cannot find just what you wi h send us particulars as to the kind of ma-chinery needed. We will make y ur wants known free of cost, and in this way secure the attention of machinery manufactures throughout the country. You will thus get all information desired as to prices, &c.]

Bridge.-Bids for building a bridge across Big Cypress creek will be received until November 7 by C. F. Winkler, Houston,

Corn Mill Machinery.-Jesse H. Bradley, Jackson Station, S. C., wants to buy ma chinery to rebuild his steam gin and grist

Iron Bridge,-Messrs, Hope, Poole and McDoon will receive proposals for building an iron bridge 43 feet long.

Iron Pipe.-Proposals for 8,884 feet of cast iron water mains and connections, 8,380 feet of sewer mains and connections, and one iron tower, will be received until November 21 by J. W. Jacobs, assistant quartermaster United States, Atlanta, Ga.

Laundry Machinery.-Wikle & Wilkes, Cartersville, Ga., want bids on a 10 horsepower engine and machinery for a steam laundry.

Machinery for a coffin factory will be wanted by the Louisville Coffin Co., Louisville, Ky. They are building a new factory, to be completed next spring.

The Natchitoches Street Railway Co. Natchitoches, La., want estimates for equipping about two miles of street railroad.

### New Florida Enterprises.

MACCLENNY, FLA., Oct. 24, 1887. Editor Manufacturers' Record :

We are forming a stock company here for the purpose of erecting and operating an ice factory and cold storage warehouse. The capital stock is \$25,000, which will be distributed in 1,000 shares of \$25 each. The capacity of the machinery we have is 10 tons of ice per day, without cold storage supply, or 5 tons with cold storage. We contemplate running a special line of refrigerator cars direct from Macclenny warehouses to New York, Chicago, Detroit, Louisville, Boston, Kansas City, Milwaukee, Philadelphia and St. Louis, carrying our fruits, vegetables, meats, butter and milk to the market centers direct. Our business will also include necessarily a large fruitraising and shipping depot. We will embrace Baker, Clay, Bradford, Columbia and Nassau counties in North Florida, and Charlton, Ware, Wayne and Camden counties in Southern Georgia. We hope to make this one of the great enterprises of the South. A large saw mill has just been erected at Glen St. Mray, this (Baker) county, Florida. We have just erected a large cot ton gin and compress here, which is in active operation day and night; cost \$10,000. A large new cigar factory has just been com pleted at Macclenny by F. A. Miller, a Philadelphia manufacturer, who prosposes manufacture cigars from exclusively Florida grown tobacco. He has made a few thousand, which are pronounced by old smokers fully equal to Cuban grown to-EDWIN S. SHUEY.

#### Electric Street Railroad Contemplated.

PORTSMOUTH, VA., Oct. 25, 1887. Editor Manufacturers' Record :

The Suburban & City Railway & Improvement Co. will build an electric street car road in Norfolk if the councils will grant it the right of way. I am managing director of WM. H. STEWART. the enterprise.

SHREVEPORT, LA., October 17, 1887. Editor Manufacturers' Record :

The fine school referred to is only talked of. The city will most likely build 6 school houses, three for white and three A. CURRIE. for colored pupils.

### Erecting Saw Mill and Box Factory

GRAYVILLE, IND., Oct. 24, 1887. Editor Manufacturers' Record

We are erecting a saw mill of 25,000 feet daily capacity, a planing mill and box factory at Winchester, Tenn. We will remove our machinery from this place in November. and hope to be running by the holidays. We will employ 75 hands J. S. VAUGHN & Co.

#### Will Build Stave Factory.

WINCHESTER, TENN., Oct. 17, 1887. Editor Manufacturers' Record :

I expect to build a tight barrel stave factory here. I want to have it running in about sixty days. Copacity from one and a-half to two million staves per year.

A. Walton.

### Will Rebuild Lampblack Factory.

BALTIMORE, MD., Oct. 25, 1887. Editor Manufacturers' Record:

Our loss is amply covered by insurance We are again in part running order, and will certainly rebuild this fall if possible; if not, then in the spring.

J. A. McCreary & Co.

### Doubling Capacity Oil Mill.

MONTGOMERY, ALA., Oct. 23, 1887. Editor Manufacturers' Record

Our mill will be doubled in capacity, but all machinery and buildings are here, and it is only a matter of putting things together. Southern Cotton Oil Co. E. W. THOMPSON, Man.

### A Woolen and Cotton Manufacturing Co.

DEFUNIAK SPRINGS, FLA., Oct. 22, 1887. Editor Manufacturers' Record

The DeFuniak Springs Woolen & Cotton Manufacturing Co., with a capital stock of \$25,000, was organized to-day. Hundreds of thousands of pounds of wool are produced in the vicinity; also thousands of bales of cotton. There is a good opening C. C. BANFILL. for other mills.

ATLANTA, GA., Oct. 24, 1887. Editor Manufacturers' Record .

Mr. Sidney Root, superintendent, has contracted with Broomhead & Shut for the erection of the center and one wing of a brick and metal roof school building for Spelman Seminary to replace the wooden building burned last July. The cost is to be nearly \$10,000. When the whole building, with brick laundry and kitchen, is complete, the investment will be about \$20,000.

### Smelting Works Completed.

THOMASVILLE, N. C., Oct. 20, 1887. Editor Manufacturers' Record:

The Piedmont Reduction Co. are putting up smelting works-in fact, not are, but have them all up, and I shall expect to start up next week to run day and night, as we have plenty of work on hand now to last us for some time to come. Our building is 80x90 feet, and is supplied with roasting and water jacket furnaces, boiler capacity of 160 horse power, one 75 horse power and one 35 horse power engine, and shall have a capacity of 25 tons per day. We have also a zinc plant, 40x60, where we will treat the zinc which is in the ore separately. We also have a complete laboratory for assay, &c., and 10 houses for our men. Our product will be fine gold, silver, lead and zinc. We have a pole road of 12 miles to bring in the ore, and are making arrangement to light up with electric lights. C. F. CROSELMIRE,

Superintendent.

#### A Construction and Improvement Co.

JACKSONVILLE, FLA., Oct. 21, 1887. Editor Manufacturers' Record:

I have associated myself with Messrs. J. R. Tysen, of this city, and E. W. Henck, of Longwood, Fla., in the organization of the Florida Construction & Improvement Co. We organize under the general incorporation law of this State, and provide for constructing and operating railroads, &c., and as incidental thereto, buying leasing and selling real estate and transacting any other busines

JAMES M. SCHUMACHER.

### Opening Granite Quarry

CONVERS. GA., Oct. 21, 1887. Editor Manufacturers' Record:

We have organized the Conyers Gold & Granite Co. We are now at work opening a granite quarry and sinking a shaft for gold. We have fine prospects for gold, and our granite is excellent and supply abundant. We also have a mineral spring on our land supposed to contain iron and sulphur, and perhaps other ingredients. The supply of granite in our (Rockdale) county is simply inexaustible, and several quarries are now being opened by private individuals. JAMES C. BARTON, Pres.

### Enlarging Machine Works.

Augusta, Ga., Oct. 20, 1887. Editor Manufacturers' Record :

We are building an addition to our works of brick, with metal roof; building will be 70x200 feet, and one 50x150 feet, and one two-story high, 30x60x70 feet, for store room and mill and engine supply department. We will add small vertical chucking and boring machine, pulley moulding plant, one buz planer, one sticking machine, one band saw, and 44 inch cutting off and centering machine. We have put in 7 new machines this year; will put in a 60 inch boiler drill press and a suspension drill, making the most complete outfit with the tools we have in use of any shop South. We are doing an extensive mill, engine and gin supply business in connec tion with our works. G. R. LOMBARD & Co.

PARAGOULD, ARK., Oct. 18, 1887. Editor Manufacturers' Record

The Paragould & Buffalo Island Railway Co., 8 miles long, from Paragould eastward to east back of St. Francis river, the line between Arkansas and Missouri; narrow gauge (3 feet), built for hauling lumber and cotton. It penetrates a section of country now isolated and rich in timber, cotton and corn products. It is proposed to extend sixteen miles beyond the St. Francis to the town of Cotton Plant, in Dunklin county, Mo., but for the present is only chartered under the laws of Arkansas to the Missouri line. Will be completed 8 miles by January 1st, 1888. Have now one engine and eight flat cars, which will for a while answer. Track laying will begin December 1st, 1887. Capital \$10,000, all paid up. A. BERTIG. Treas.

### New Stave Factory.

LOUISVILLE, KY., Oct. 21, 1887. Editor Manufacturers' Record

We are having our new machine shops built and all the machinery put in. The building is 435x141 feet, two stories high.

W. H. METZ & CO.

#### Will Rebuild Mill.

SALEM, N. C., Oct. 22, 1887. Editor Manufacturers' Record: I will rebuild saw mill at once.

E. M. LIGHT.

#### To Build a School.

CHARLESTON, S. C., Oct. 19, 1887. Editor Manufacturers' Record:

The commissioners of city public schools have accumulated from a small tax levied in previous years a sum of money for the erection of a new school house in the northwestern section of the city. An acre lot has already been purchased and paid for, and the new school house will have a capacity of 1,000 girls and boys.

NEW ORLEANS, LA., Oct. 21, 1887. Editor Manufacturers' Record:

My ginnery will be rebuilt. Am now making preparations to build immediately, if possible, to continue the business of this season. In case it be too late, shall do so for next season. H. P. FOURNET.

HUNTSVILLE, ALA., O. t. 20, 1887. Editor Manufacturers' Record:

The North Alabama Improvement Co. will enlarge Monte Sano Hotel and build a number of cottages, so as to give them 200 more rooms at least. They will be ready for next season. A large and elegant ball-room and bowling alley, near the hotel, is nearing completion. The construction of a dummy line railroad from this city to the Hotel Monte Sano is also being seriously considered by this company, and will no doubt be built.

BEN. P. HUNT.

### Ice Factory Contemplated.

WALDO, FLA., October 20, 1887. r Manufacturers' Record:

We contemplate erecting an ice factory and cold storage house at Florence, Ala The matter will be settled positively next THE AMERICAN

REFRIGERATOR & CONSTRUCTION CO.

### To Build a Canning Factory.

EASTON, MD., October 21, 1887. Editor Manufacturers' Record

It is our intention to erect a canning factory in this place next spring.

HUBBARD & BRO.

#### Will Rebuild Saw and Planing Mill.

MACHIPONGO, VA., October 21, 1887. Editor Manufacturers' Record:

We will rebuild here in the spring. The boilers and engine that were in the fire will be put in mill at Suffolk, Va., at once. J. C. & Z. W. DENNIS.

RALEIGH, N. C., October 19, 1887. Editor Manufacturers' Record:

We have put in new machinery for mak-A. D. ROYSTER & BRO.

#### Enlarging Carriage Factory.

NASHVILLE, TENN., October 19, 1887. Editor Manufacturers' Record:

I am enlarging my factory and building addition, 55x35 feet, three stories, of brick. Geo. W. W. Sweeny.

### Electric Light Plant.

BOWLING GREEN, KY., Oct. 19, 1887. Editor Manufacturers' Record:

Our city has contracted with the Jenney Electric Light Co. for a plant.

H. E. JENKINS

### Building New Factory.

LOUISVILLE, KY., October 19, 1887. Editor Manufacturers' Record:
We are building a new factory to be

completed in the spring, and will want some new machinery, &c.

LOUISVILLE COPPIN Co.

#### Another Land and Improvement | The R. & D. Railroad at the Company.

WATERLOO, ALA., October 18, 1887. Editor Manufacturers' Reco

The Waterloo Land, Mining & Manufacturing Co. was organized 1st Saturday in October with George T. McWhorter as president; Hiram Richardson, vice-president, and O. P. Tucker, treasurer.

J. M. ALLEN, Secretary.

#### Will Rebuild Saw Mill.

THORNTON, W. VA., October 10, 1887. Editor Manufacturers' Record:

We intend to rebuild our saw mill soon. J. C. PAINTER & BRO.

#### Enlarging Factory.

SHELBYVILLE, TENK., Oct. 18, 1887. Raitor Manufacturers' Record:

We are enlarging our factory. Our wagon factory is in operation now, and planing mills will be in course of three weeks. WILHOITE & SANDERS.

#### Steam Laundry and Dye Works.

SHEFFIELD, ALA., October 18, 1887. Editor Manufacturers' Record:

We are starting a steam laundry and dye works at Sheffield, and will be in operation as soon as building can be completed and machinery is in place.

Morris Bros. & Co.

BALTIMORE, MD., October 20, 1887. Editor Manufacturers' Record :

The Tunis Lumber Co. has been incorporated with a capital of \$250,000, all of which will be full paid up. The new company will do a dressed lumber business. It will be a consolidation of Tunis, Eccles & Co., of North Carolina and E. L. Tunis & Co., of Baltimore. E. L. TUNIS.

THE Standard Wagon Co., of Cincinnati, Onio, with H. L. Atwater as manager of the Atlanta repository, made a most creditable display at the Atlanta Exposition of their fine workmanship, consisting of landaus double and single carriages, buggies and phaetons. The Standard Wagon Co. cover the whole of the United States and Mexico with their sales. The Favorite Carriage Co., of Cincinnati, also made a most excellent exhibit of their goods in connection with the Standard Co., and in their own special house, beantifully designed and decorated by Major T. M. Barna, it was the especial attraction of all visitors at the exposition. Major Barna, the inventor of the cotton planter, and a man universally known throughout the entire South, had charge of the Standard Wagon Co's exhibit, and right royally did he dispense hospitality to all visitors. Major Barna is a gentleman of the old school, a man thoroughly alive to the necessities of the hour, polite, reliable and unquestionably a useful man to the South in the way of building up the old and wornout tissues, and supplanting the vacancies by useful methods and inventions. Geo. A. Burrows is the president of the Standard Wagon Co., and Edward S. Ebbert the president of the Favorite Carriage Co., with headquarters at Cincinnati, Ohio. gentlemen did a wise thing in making an exhibit of their goods at the exposition, and were most fortunate in securing the services of Major Barna to represent them.

MR. R. H. EDMONDS, editor of the Baltiore MANUFACTURERS' RECORD, was at the Buford House, in this city, yesterday, on his way to the Atlanta Exposition. The MANU-PACTURERS' RECORD is doing a splendid work for the South, and we deem it the best friend that the industrial and manufacturing interests of the Southern States can lay claim -Charlotte (N. C.) Chronicle.

### Piedmont Exposition.

One of the redeeming features of the Piedmont Exposition was the daily trains put on the road to the exposition buildings by the R. & D. R. R., which ran every fifteen minutes to and from the city. Had it not been for the able management and the conception beforehand of the impossibility of accommodating the crowds to the exposition, as outlined by E. B. Thomas, general manager of the R. & D. R. R., the mode of travel to and from the great fair would indeed have been very deplorable. It would have been an impossible matter to accommodate the thousands upon thousands of visitors who came hundreds of miles to see the exposition, had it not been for the great services rendered by the R. & D. R. R. In fact, the Piedmont Exposition owes to Mr. Thomas, as the representative head of the R. & D. R. R. system, a debt of gratitude which it can never pay in dollars and cents. The management of the R. & D. R. R. exposition train was one of the best regulated, most evenly devised and thoroughly equipped arrangements of the whole Piedmont Exposition.

A GOOD share of the cooperage notes which appear in the North-western Miller are stolen bodily from the Baltimore MANU PACTURERS' RECORD and then are copyrighted.-National Coopers' Journal, Buffalo, N. Y.

We thank our Buffalo contemporary for the implied compliment, but hope the case is not quite so bad

### Southern Newspaper Enterprise.

The Daily D.spatch, of Montgomery, Ala published October 20th a special edition of 32 pages. In addition to its usual quota of the world's news and an interesting assort ment of miscellaneous matter, this issue of the Dispatch contained a summary of the history of Alabama from the time of its settlement to the present, a review of the State's mineral resources and sketches of every county in the State.

A copy of the entire 32 pages, printed in gold on satin, was presented to President and Mrs. Cleveland. The paper was formed into a roll and enclosed in a crimson plush case, in the center of which was a silver plate, on which were inscribed the words dedicating the edition to the President.

CORRESPONDENCE relating to the manufacturing, mining, lumbering and all other material interests of the Southern States is solicited. Reaching so many capitalists in all parts of the United States seeking profitable investment in the South, the MANU-FACTURERS' RECORD offers an excellent chance for the people in that section to place the advantages of each locality before those likely to be interested. We will take great pleasure at all times in telling what has already been accomplished in the South, and showing up the opportunities of doing still more.

# nformation About ♯ South

HE marvelous mineral and timber wealth of the Southern States, their unrivalled capabilities as a manufacturing area, and the astonishing progress they are making in developing their natural resources and in utilizing their facilities for manufacture, are attracting the attention of the whole world. The extent of these resources and advantages is so ully and carefully set forth, and the progress of this development so faithfully chronicled from week to week in the MANUFACTURERS' RECORD, that it is now accepted everywhere as unquestioned authority on Southern affairs, and Its statistics and statements are drawn upon by almost every writer or speaker on any Southern topic.

Its weekly issues constitute an authentic history of the industrial progress of the Southern States. It furnishes every week a vast variety of information on Southern affairs that can be gained from no other source. It discusses in its aditorial columns and in its correspondence every topic of Southern Interest. It presents the resources and development of the South in all their phases. To all who are in any way interested or concerned in the prosperity of the South, or who care to keep posted as to the industrial and commercial progress of that section, the MANUFACTURERS' RECORD is indispensable.

Manufacturers and others desiring to locate in the South, will find the MANUFACTURERS' RECORD invaluable. In every issue there are many offers from Southern towns and land companies offering free sites and financial aid to those who will establish new manufactures, or remove their plants from the North to the South. There are hundreds of openings throughout the South for factories of all kinds, foundries and machine shops, brick yards, agricultural implement works, handle factories, all classes of wood-working establishments, &c. If you desire to know what the South is doing, and what opportunities it offers for success in every line of industry, great and small, read the MANUFACTUR-

As the leading industrial paper of the South, the MANU-FACTURERS' RECORD covers that entire section, and is closely read by manufacturers of all classes, mining operators, builders and contractors of railroads, water works, milia of all kinds, &c., merchants, capitalists and business men generally. It is undoubtedly the best advertising medium in existence through which to reach the rapidly developing manufacturing and mining interests of the fourteen Southern States. It is the most widely quoted and highly commended industrial journal in America. It is live, active and progressive, and is the recognized authority throughout the country upon the growth of the South.

Never before in the history of the South were the prospects so brilliant for a wonderful activity in all manufacturing, mining and railroad interests. Moreover, the abundant crops ensure great prosperity to the farmers. More machinery, and supplies for cotton and woolen mills, wood-working establishments of all kinds, iron works, railroads, mines, &c., will be purchased by the South during the next twelve months than ever before in the same length of time; and those who desire to secure a share of this trade, will find that an advertisement in the MANUFACTURERS' RECORD will prove a profitable investment, as it will bring their machinery directly before buyers in all parts of the South.

Sample copies and advertising rates mailed on application.

Published by the MANUFACTURERS' RECORD CO.

SUBSCRIPTION \$3.00 A YEAR.

BALTIMORE, MD.

#### Cotton Mill Wanted.

CULLMAN, ALA., Oct. 18, 1887. Editor Manufacturers' Record

We would be pleased to correspond with some capitalist or company with experience and capital, relative to the erection of a cotton factory at this point. The town is on an elevated point unsurpassed for health, water in abundance, cheap living, excellent church and educational facilities, and an ample supply of cotton raised in the adjacent country to run factory all the We will donate the site and take a liberal share of the stock. Any informa-tion desired will be cheerfully given.

PARKER & BROWN.

### Erecting a Lumber Mill.

BLUFF CITY, TENN., Oct. 21, 1887. Editor Manufacturers' Record.

We have formed a stock company of \$50,000 cash capital, and are putting in our mill at Bluff City. Tenn., and our improvements are quite well advanced. The mill is one of Stearns Manufacturing Co's latest and best make. We have a supply of timber for about 15 years' cutting, principally of white pine and yellow poplar of good quality. We expect to commence cutting about January 1, 1888. The officers of the company are: Hugh W. Dyar, of Detroit, Mich., president; Alson F. Willey, Grand Rapids, Mich., treasurer and mana ger, and Harry C. Angell, secretary.

THE WILLEY BOOM & LUMBER Co. A. F. WILLEY, Man

### Will Rebuild Flour Mill.

TRUNDLE'S CROSS ROADS, TENN., Oct. 24, 1887.

Editor Manufacturers' Record :

My mill was burned, and I desire to rebuild at once. I want information about G. N. WADE. burrs.

### Rebuilding Lumber Mill

GREENVILLE, ALA., Oct. 22, 1887. Editor Manufacturers' Record:

We will rebuild at once; in fact, we are well under way now and hope at an early day to be ready for business, with larger and better equipment than we had before. FLOWERS & PEAGLER.

WHEELING, W. VA., Oct. 24, 1887. Editor Manufacturers' Record :

We are building a new light and power station, and have contracted for all machinery needed.

THE WHEELING ELECTRICAL CO.

GONZALES, TEXAS, Oct. 17, 1887. Editor Manufacturers' Record :

The city of Gonzales will build a high school building of a seating capacity for 500 students, not to cost exceeding \$10,000. To be of brick or stone. Address, Ed. Titcombe, city secretary. L. H. Planck.

### Will Rebuild Grist Mill.

JACKSON STATION, S. C., Oct. 21, 1887. Editor Manufacturers' Record :

My steam gin and grist mill was burned on the 5th inst. I intend to rebuild; work to commence at an early date; capacity same as formerly, if not greater. As I shall have to purchase a complete outfit, gins, feeders, condensers, press, millstones, engine, etc., I want circulars and prices from JESSE H. BRADLEY. manufacturers.

#### Additional Machinery.

WEST POINT, GA., October 22, 1887. Editor Manufacturers' Record:

The Rosedale Manufacturing Co., with business office here, has recently added new machinery-84 looms and 5,000 spindles.

### Will Enlarge Iron Works.

MARION, S. C., October 20, 1887. Editor Manufacturers' Record .

The capital stock of the Elm City Iron Works at this place has been largely increased and their capacity will be doubled. Agricultural machinery of all kinds, engines, &c., will be manufactured.

X. Y. Z.

### Building Box Factory and Planing Mill.

MEMPHIS, TENN., October 18, 1887. Editor Manufacturers' Record:

We are building a first-class box factory and planing mill, and contemplate putting in all the latest improved machinery.

R. L. COCHBAN & Co.

### Electric Light Machinery.

COLUMBIA, TENN., October 19, 1887. Editor Manufacturers' Record:

We have recently put in our mill a 125 16 candle-power Jenney electric light plant, made at Fort Wayne, Ind. This is an incandescent light.

COLUMBIA COTTON MILL CO.

#### Brick Works.

LOUDON, TENN., October 20, 1887. Editor Manufacturers' Record :

We have started works for the purpose of manufacturing fire-proof brick.

HOOD & ROBINSON.

### C. R. MAKEPEACE & CO. ARCHITECTS and Mill ENGINEERS

DENCE, R. I. Plans, Specifications an ates furnished for Cotton and Woolen Mills

WANTED MAN to take charge of practical depart-ment of Large Wood Working Establish-Business firmly established Goods sold all the South Brains, Energy and Experience tial. Some money desirable. Good chance for maa. G. C. TERRY, Nashville, Tens.

### FOR SALE!

Machine Works and Foundry Business.

Well established and growing, and located in the tost desirable section of the South. Excellent poprtunity for practical man with some capital. ddress NORTH GEORGIA, CARE MANUFACTURERS' RECORD.

THE PATENT PILING PROTECTOR CO., BRUNSWICK, GA., is prepared to pro-tect piling from the Teredo and other Marine Pests in any Harbor in the United States, and will erect its plant, which is inexpensive, in any Harbor where a contract is offered, and prepare piling from the timber near at hand. The process is thoroughly effective, indestructible in salt water, and protection for ten years guaranteed. Is fully protected letters patent. Has been tested for six yes is better than metal covering; as good and for piling in some respects better than creosoting; costs less than one-half as much as metal covering or creosoting. Circulars fully ex-plaining process will be sent upon application. dence solicited.

C. P. GOODYEAR, President, BRUNSWICK, GEORGIA

## Logging, Mining and Plantation

RAIL AND TRAM BOADS. Light Sections Rails and Spikes in stock Locomotives, Logging Cars, etc. NEW AND BECOND HAND.

HUMPHREYS & SAYCE OFFICE NO. I BROADWAY, N. Y.

## MORRISTOWN.

### The Metropolis of Upper East Tennessee.

-IN BRIEF:-

It has a population of 3 500—incorporated. It has more than doubled its population T880

since 1880.

It has the finest courthouse and opera house in Upper East Tennessee.

It is the center of the richest and most extensive agricultural district in the State.

extensive agricultural district in the State.

It has an elevation of 1,400 feet, and affords mountain views of surpassing beauty. It has five commodious brick church edifices and two good brick school buildings. It does the largest retail and wholesale bus iness of any city in Upper East Tennessee. It offers more and better opportunities for paying business enterprises than any city in the South.

It has hundreds of thousands of acres of unexcelled forests of merchantable timbers

accessible to it. It has the finest climate in the world, an

abundance of pure spring water, and is noted for its healthfulness.

It is building more business houses and private residences in proportion to its popu-lation than any city in the State.

It is surrounded with iron and zinc mines

It is surrounded with iron and zinc mines and quarries of gray and variegated marbles of incalculable extent and value.

Its land companies and building association place desirable homes within reach of men of small means as well as large.

It is the commercial, manufacturing and railway center of Upper East Tennessee, having immediately tributary to it nine of the wealthiest counties in East Tennessee and a large part of Western North Carolina.

It has railroad facilities equal to those of any point between Chattanooga and Lynch-

any point between Chattanooga and Lynch-burg, and they will be increased in the next eighteen months by the building of the short line to the coal fields at Cumberland Gap. It has a citizenship composed almost exclu-sively of native-born Americans, large num-

bers of whom are recent emigrants from New York, Connecticut, Pennsylvania, Ohio, Vir-

York, Connecticut, Pennsylvania, Ohio, Virginia, Indiana, Wisconsin and other States. It has two banking institutions, extensive stove works, a manufactory of agricultural implements, a large tannery, three lumber mills, the largest commercial flouring mill in East Tennessee, two marble works, a carriage and wagon factory, and many industrial establishments of lesser note.

ROBERT L. CANT,

# Farm, Mineral←

erty in a growing manufacturing center, and Truck Farms of superior excellence in close proximity to the markets of the country, and Mineral and Timber Lands of great value, will do well to consult Mesers. A. B. Whiteaker & Co., of Bristol, Tenn. The Mineral and Timber Lands controlled by us are within a radius of fifty miles of Bristol, and are pronounced by experts to be the most valuable in the sections of East Tennessee and Southwest Virginia. The Timber Lands are of virgin growth and in close proximity to the railroads. The Mineral Lands are the richest in this section of the South. Capitalists and Prespective Settlers, as well as Home See ers, will do well to consult us regarding our lands, which we offer at the most reasonable prices. We will be glad to furnish any or all kinds of the State. Address

A. B. WHITEAKED & CO.

A. B. WHITEAKER & CO. BRISTOL, TENN.

# FOR SALE

150,000,000 feet White Pine. 30,000,000 feet Poplar. 200,000,000 feet Hemlock. 10,000,000 feet White Oak.

Ten miles from railroad to be completed in twelve months.

E. B. MOON, Bristol, Tenn,

### D. W. K. PEACOCK, Real Estate Agent,

CARTERSVILLE, GA.

Minerals a Specialty.

Refers to | THE HOWARD BANK, Cartersville, Ga.
| J. W. RANKIN, Atlanta, Ga.

### The Old South and the New

1867-1887.

A SERIES OF LETTERS TO THE "MANU-FACTURERS' RECORD" RECORDING THE OBSERVATIONS MADE IN TWO JOUR-NEYS THROUGH THE SOUTHERN STATES, WITH SPECIAL REFERENCE TO INDUS. TRIAL AND COMMERCIAL CONDITIONS AND CHANGES.

### WILLIAM D. KELLEY, M.C.

"This volume is the result of an earnest desire on the part of its author to understand the industrial and social condition of the people of the Southern States. The better to gratify this desire, he revisited in 1887 substantially the field he had traversed in 1867. A few days sufficed to convince him that to chronicle his observations with photographic fidelity, and to report them, with his conclusions therefrom, to his countrymen at large, might prove to be a fitting close to the labors of a long life which has been devoted chiefly to the investigation of social and politico-eco-nomic questions."—Author's Preface.

IN THE QUESTIONS OF THE DAY SERIES, No. 44.

12mo, Cloth, \$1.25.

### G. P. PUTNAM'S SONS.

27 & 29 W. 23d Street, New York.

27 King William St., Strand, London.

### Iron and Steel+ Manufacturing.

The advertiser wishes to enlist parties who desire to engage in manufacturing with the view of erecting a plant equal to any in the country. Can offer location where building can be done cheaply. A number of leading railroads for collecting and distributing materials and stock at best rates are available. Cheap coal, and fuel gas can be furnished at five cents per thousand feet, and with a complete organization under a perpetual charter, with privileges unlimited as to use of capital in manufacturing and mining, and all necessary and proper advantages for the association of capital at any desirable point. Or, if a better location could be found, the advertiser would make the organization available at such a point, or where parties The advertiser wishes to enlist parties available at such a point, or where parties are already manufacturing or mining and wish to extend their business. Address IRON & STEEL MANUFACTURER,

Care MANUFACTURERS' RECORD.

Baltimore, Md.

### COPY OF ORDINANCE

assed by the Council of the Town of West Point, Virginia, on the 21st day of April, 1879, and re-enacted and approved on the 99d day of Moreh 1887 1879, and re-enacted and 22d day of March, 1887.

22d day of March, 1887.

Be it ordained by the Council of the Town of West Point, Va., that any party or parties investing in property in this town for the purpose of conducting any enterprise, such as manufactories, packing houses, &c., and actually operating the same, they shall be exempt from all corporation taxes upon such property, and all machinery and improvements thereon, for the term of ten years from the purchase of such property.

such property.

It is also ordered that the Mayor is hereby instructed to advertise this ordinance in the "Manufacturers' Record," a paper published in the City of Baltimore, Md.

E. WILKINSON, Mayor.

### \*For Sale.\*

A 100 horse-power Stationary Engine and two Stationary Boliers, together with fronts, grates, castings and trimmings. Said Engine and Boilers have been used, but have been thoroughly rebuilt, and are in A No. 1 order, and will be sold very low; or can attach a Mammoth Saw Mill and soll all low, and take part in good yellow pine lumber. Apply to

RICHMOND MACHINE WORKS. RICHMOND, IND.

# DECATUR, ALA.

Offers outside investors better inducements to locate than any other

CITY IN THE SOUTH.

# Mammoth MANUFACTURING Enterprises,

She has few equals and no superiors in the South.

There have been located at Decatur in the last four months the following Industries:

THE DECATUR LAND, IMPROVEMENT & FURNACE COMPANY. Has 50,000 ACRES of Iron, Coal, Mineral and Timber LANDS.

The Louisville & Nashville Railway Car Works. Cost of Buildings, \$300,000.

Charcoal Company's plant, costing \$120,000.

A seventy-ton Charcoal Iron Furnace, costing \$190,000.

A one hundred-ton Blast Iron Furnace, costing \$225,000.

The Decatur Iron Bridge Construction Company; cost of plant, \$100,000.

The American Oak Extract Company's plant, costing \$60,000.

Ivens & Sons Steam Boiler and Engine Works, costing \$100,000.

Morse Cotton Compress plant, costing \$60,000.

Decatur Lumber Company, Saw and Planing Mills, costing \$50,000.

Berthard & Co., Sash, Door and Blind Factory, cost \$15,000.

The Decatur Street Railway Company.

The Telephone Company.

Brush Electric Light Company, cost \$10,000.

The Ironton Wheelbarrow Company, cost \$25,000.

Howland & Co's Water Works System, costing \$200,000.

Bleymeyer Artificial Ice Company, cost \$10,000.

Four Mammoth Brickyards.

Jones, Poley & Co's Lumber Yards.

The Hoosier Mills & Building Company.

The Gate City Sash & Door Company.

Arantz Bro's Mills and Lumber Yards.

Grant & Co's Furniture Factory.

Southern Lumber Company.

H. S. Freeman's Mills and Lumber Yards.

The Alabama Farmer's Friend Fence Machine Company.

The Decatur Artificial Stone Company.

Decatur Chain and Architectural Iron Works, capital \$100,000.

Natural Gas Company, capital \$200,000.

First National Bank, capital \$100,000.

The Exchange Bank of Decatur, capital \$100,000.

Merchants' Insurance Company, capital \$100,000.

Decatur Building Association, capital \$300,000.

Decatur Building Company, capital \$1,000,000.

Buchheit's Bottling Works.

Decatur Printing Company.

Two daily papers, three weekly papers.

Two hotels are building—one \$60,000, one \$300,000; the largest in the South.

Grand Opera House, \$100,000.

THERE ARE OTHER

### 

Locating here, and contracts are being made with some of the most extensive industries in the United States.

Decatur is the Healthiest city in Alabama, the death rate among whites for 1886 being only 11 in 1,000.

# Decatur Land, Improvement & Furnace Company.

E. C. GORDON, President

H. G. BOND, Vice-Prest. and Gen. Manager.

W. E. FOREST, Secretary.

This Company has been pre-eminently successful in promoting the interests of the city of Decatur.

CORRESPONDENCE SOLICITED WITH PARTIES SEEKING LOCATIONS.

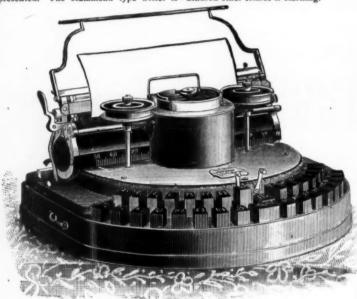
#### The Hammond Type Writer.

The use of type-writing machines is becoming as general as that of the copyingpress, or any other of the labor saving devices essential to a well-equipped counting room. No office nowadays is complete in its outfit without a type writer. There are machines of several makes in use, but only three that have attained any prominence, or are widely used. Of these the latest to come before the public is the Hammond, an illustration of which is herewith presented. The Hammond type writer is

The main office of the Hammond Type Writer Co. is at 77 Nassau street, New York. Their Maryland business is in the hands of Mr. J. H. Wilson Marriott, whose office is at the corner of Charles and Favette streets, Baltimore,

#### Commercial Depravity.

To the thoughtful student of our modern business life, as well as to the practical philosopher, the frequency of cases of embezzlement breach of trust, defalcation and kindred other crimes is startling.



THE HAMMOND TYPE WRITER.

the result of years of inventive effort and embodies such improvements as were suggested by the study and use of the writing machines in existence prior to its introduction

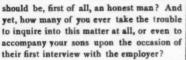
The keyboard of the Hammond is similar to that of a piano, there being two rows of With only 30 keys 90 characebony keys. ters can be printed. Instead of the type being on a series of levers, as in the type bar machines, they are all arranged on two segments of a wheel termed a type wheel. This type wheel is brought to the printing position by the action of the key levers, an impression hammer pressing the paper against the type on the wheel. Each type wheel carries three rows of characters, the upper row representing small or lower case letters, the middle row capital letters and the third row figures, fractions and other useful characters. Ordinarily lower case letters are printed, but when capital letters are desired a shift key is used, which elevates the type wheel and brings the middle row of letters to the printing position. This shift key can be operated simultaneously with any of the other keys. A second shift key brings the third row of the type wheel into proper position to print figures, fractions and other characters of more or less frequent occurrence. The hammer stroke of the Hammond is automatic, thus making the impression uniform, no matter whether the keys are struck lightly or forcibly. The machine can write a line 9 inches long, and, as its carriage ends are open, it can take paper of any width. The striking of two keys simultaneously cannot harm the machine, and will give but one impression. The machine is light and portable, weighing with case and cover only 18 pounds.

The Hammond type writer received at the New Orleans Exposition, 1885, the only gold medal awarded to type writers.

The company's machines are now to be found nearly everywhere, several thousand being in daily use among business men, lawyers, railroad and insurance companies, teachers, etc., which are giving entire satisfaction, and the numerous and excellent testimonials to be found in their pamphlet year out this statement.

the business houses of this country enter upon their career between the ages of fourteen and seventeen years. These positions are generally obtained by watching the answering the advertisements therein. Usually the applicant is required to live with his parents and "come well recommended."

A very large majority of the office-boys in "want" columns of the newspapers and



I firmly believe that more than one-half of the defalcations and breaches of trust among clerks are caused by the silent teachings of dishonest merchants. I do not mean excuse the clerks who permit themselves to be influenced by such teachings, but I wish to put the first blame where it belongs and, in meting out punishment to the offenders, ideal justice would consign them

both to the penitentiary.

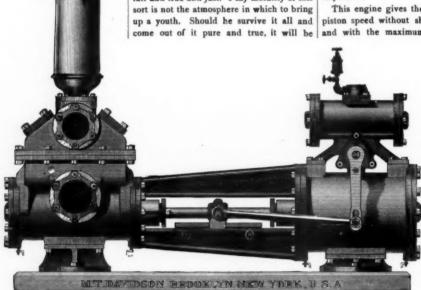
Some time ago a case like this occurred: A clerk was instructed by his employer to render an account of sales for goods sold on commission at a price less than that at which they had actually been sold. With rare courage, he refused to do it, and consulted a certain millionaire as to what was his duty under the circumstances. Mark the result as an evidence of the present low tone of business morals: The millionaire told him he was wrong, and that he should not criticise the morals of his employer, but obey orders! Fortunately, in this instance, the ang man's conscience was stronger than his fear of a millionaire's disapprobation. and he gave up his position. The employent was that "he was too good for this world."

Many similar things militate against the moral growth of the young clerk. Everybody must deplore the morality that permits false weights and false prices; that puts a "three-pound" label on a forty-two-ounce package; that sells fifty per cent. of spoilt flour and worse than spoilt buckwheat as "pure" mustard and "pure" pepper; that laughs at the sharp trick of false weights inserted in bills of lading to defraud the railroad and steamship companies; that applauds the successful bribery of a customhouse examiner of dutiable goods; that chuckles at the clever imitation of a competitor's trade-mark; that twists and turns and prevaricates to avoid the payment of taxes justly due the Commonwealth for its blessings of liberty and protection; that does, in a word, everything that is low and mean and degrading, and nothing that is fair and true and just. I say morality of this sort is not the atmosphere in which to bring up a youth. Should he survive it all and

### The M. T. Davidson Water Works Pumping Engine.

We illustrate on this page a non-condensing pumping engine manufactured by the M. T. Davidson Steam Pump Co., Brooklyn. The peculiarity of this pumping engine is the steam end; unlike other directacting steam pumping engines it has only one valve in the steam chest. This may properly be called a compound slide-valve with cylindrical face. It performs two duties, that of the ordinary slide valve and of the auxiliary valve combined. Its duty as a slide-valve is, of course, to reciprocate across the steam ports, to admit steam alternately to the two ends of steam cylinder. and, as an auxiliary valve, it is oscillated so as to open and close the steam ports that lead to the ends of the steam chest. The steam chest is cylindrical and bored out to make a face for the slide-valve, and to receive the pistons that assist in operating the valve. The pistons are connected together, sufficient space being allowed between them for the valve and steam ports, and they are also connected to the slide-valve, all working in the same plane and being of same diameter, thereby insuring evenness of wear and readiness of access for adjustment and repairs. An examination of the valve at once suggests the impossibility of its getting out of order, becoming deranged or wearing out within the life of any other portion of the pump. The valve is oscillated by an oblique cam, connected with the valve by a steel pin passing through the valve into the exhaust port, in which the cam is placed. The moving of the valve does not depend entirely upon the steam admitted to the end of the valve piston, for should that not be quick enough to operate on the valve, with the pump under a high rate of speed, the cam is so constructed that it will carry the valve mechanically, and thus prevent the piston from striking the cylinder heads in any case. This is claimed as one of the ost important features of this engine, the valve being as much under the control of the piston rod as is the valve of the ordinary steam, worked by an eccentric, instead of being independently controlled by an auxiliary valve.

This engine gives the highest attainable piston speed without shock or concussion and with the maximum of efficiency and



WATER WORKS PUMPING ENGINE.

very one-sided affair? If your boy can furnish the highest credentials of his character and fitness for the position, why, pray, would it be so very absurd to ask the merchant who is to employ him to produce his cert ficate of character also?

Herein lies one great secret of the cause of fraud and defalcation in the business community, namely: the dishonesty of employers. In starting your son upon his career, do you not consider it a matter of transcendent importance that his employer | RECORD. Price \$3.00 a war.

true man, and not because of his surroundings.

Parents must, therefore, exercise greater care in launching their sons upon the tempestuous sea of business life, or shoulder the blame for the consequent shipwreck .-The Epoch.

If you wish to keep posted on the progress of the South, read the MANUPACTURERS

But, did it ever occur to you that this is a | because he has within him the mettle of a | economy. Its capacity is 2,000,000 gallons in 24 hours, working at medium speed. It is very simple in construction, effective in action and extremely durable. It has been spoken of in the most flattering terms by government officials, cities, towns, villages and corporations, who readily endorse it for its special duty. Every pump and pump-ing engine manufactured by the M. T. Davidson Steam Pump Co. is of the best material and workmanship, and fully tested at their works, at greatest required speed and pressure, before shipment.

### TRADE NOTES.

THE Jeffrey Manufacturing Co., of Columbus, O., having lately gotten control of the Hey & Oborn patents, beg leave to announce to the public are now ready to supply the market in several numbers and strengths of the Hey-Oborn detachable chain, and will be able to supply all sizes in a short time. Parties wishing to place orders for chain belting will do well to ask the Jeffrey Manufacturing Co. for samples and special circulars.

THE Globe Iron Roofing & Corrugating Co, of Cincinnati. Ohio, have just completed covering the United States Govern Quartermaster's Depot at Jeffersonville, Ind., with their Globe standard standing seam iron roofing. The iron was No. 24 gauge, weighing one pound to the square foot, and it required over one hundred tons of iron, The Globe Company claim that this is the largest continuous iron roof on one building in the United States, as the roof is 3,200 feet long, considerably over half a mile, and the same was formerly covered with slate. The government officers at the depot were so pleased with the job that they gave the Globe Co. several very highly complimentary testimonials regarding the material furnished and work done.

THE Davin Machinery Co., Walter W. Davin, manager, have just sold to the Gate City Lumber & Manufacturing Co., of Gate City, Ala., a 50 horse-power engine, with 60 horse-power boiler, planers and matchers, moulding machines, re-saws, etc., etc.

WM. STEVENSON the representative for Messrs. F. A. Leigh & Co., Boston, (agents for the Platt revolving flat carding engine and other specialties in cotton machinery) is at present in the South introducing merits of the new system to the notice of the cotton manufacturers, which has been so largely adopted in the best mills of New England during the past three years. It is claimed for the cards that they save floor space, save waste and wages, and produce from 600 to 1,000 pounds per week of carded cotton equal to double carding. Stevenson is very hopeful that they will soon be introduced into some of the new Southern mills, and will effect a marked improvement in the quality of the goods as well as profit to those using them. In England they have been in successful use for 20 years and increasing yearly in favor.

THE commissioners of the Huntingdon Asylum, of Huntingdon, Pa., after fully investigating the merits of different engines a view to getting the best power for their institution, have decided upon the Ball automatic cut-off engine, built by the Ball Engine Co., of Erie, Pa., and have specified this engine in their call for estimates. This is very flattering, and the Ball Engine Co. has reason to congratulate itself in having its engines singled out from among the numerous manufactures in this country

THE Brush Electric Light Co., of Baltimore, Md., is increasing its plant, and has ordered another Ball engine from the Ball Engine Co., of Erie, Pa., through their agents, Messrs. Crook & Horner, of that place.

THE Davidson Steam Pump Co., Brooklyn, N. Y., have just issued a new catalogue It contains many facts of importfor 1887. ance and interest to steam users, interspersed with finely executed illustrations of the improved steam pumps, pumping engines and hydraulic machinery manufactured by this firm. Manufacturers and others contemplating the purchase of power pumps and pumping machinery for any service should send for this catalogue. Address the Davidson Steam Pump Co., 77 Liberty street, New Vork.

ASBETOS THEATER CURTAINS,-The new Broadway Theater in New York, Academy of Music, Buffalo, and Vendome Theater, Nashville, Tenn., have contracted with the Chalmers-Spence Co., of the first-nan city, for asbestos drop curtains, with a view to protecting the auditorium from destruction in case of a conflagration occurring on the stage. It is well known that asbestos is practically non-combustible and a curtain ade of it that can be instantly dropped will secure absolute safety in such cases.

THE Stevens Filter Co., of Toledo, Ohio, are making a specialy of building large or odd-sized filters, for hotels and private residences to set in a niche in the wall or in a corner. They are all constructed on the same principle as the celebrated upright filter, and can be cleaned by merely reversing the supply pipe. The sale of these filters is rapidly increasing, and they are being shipped daily to nearly every part of the world. Parties building new and modern homes or hotels should correspond with the Stevens Filter Co. and receive plans and prices on special filters and coolers.

THE safe works of the Corliss Manufacturing Co., Providence, R. I., are ruuning night and day to fill orders for their new safes, which are being constructed on an entirely new system, radically different from anything hitherto made, and which promises to revolutionize the business. They are making two for the Safe Deposit Co., of Dayton, O.; two for the Plankington National Bank, of Milwaukee, and have re ceived orders from the First National Bank. of Minneapolis; the First National Bank. of St. Paul; the Waukeshun National Bank; the National Bank of Ashland, Wis.; Manufacturers' National Bank, of Racine, etc. The United States Bank, of Omaha, have adopted their complete system, which embraces fire-proof vaults and burglar-proof safes.

On another page will be found the advertisement of the Alpine Safe Co., Cincinnati, Ohio, The prices of their fire-proof safes are astonishingly low, and any one needing a safe should investigate the merits of these before purchasing.

ONE of the neatest catalogues of the seaon is that just issued by the Joseph Bell Stove Co., Wheeling, W. Va. It contains illustrated descriptions and prices of the stoves made by this company for all pur-poses, and dealers should send for a copy.

THE Empire Lumber Co., who own several fine saw mills, including "the Nickel Plate Mill" at Empire, Ga., with a daily capacity of 250,000 feet of yellow pine lum ber and the Empire Mill, Seddon, Ala., with a capacity of 125,000 feet per day are out with a handsomely engraved circular announcing the opening of their new mills, which are equipped with all the latest improved saw mill machinery furnished by the Stearns Manufacturing Co., of Erie, Pa., and the highest grade of wood-working machinery purchased of J. S. Graham & Co., of Rochester, N. Y., who have a reputation second to none for the latest and most improved machinery. The plant of this company includes a standard gauge railroad, two motives and twenty-five cars, steam driers with a capacity of 40,000 feet per day, a thorougly equipped planing mill, complete in every detail; J. C. Anderson is president of the Empire Lumber Co., and J. W. Hightower is secretary. The general office of the company is in Chattanooga, Tenn.

### Philadelphia Trade Notes.

REPORTS from proprietors of shops and foundries indicate an increased healthy activity for 1888.

BERTOLETTE & LUKENS expect to have twenty machines in operation making wire | Coal, Iron & Land Co.

nails in a week The machines are con structed from patents owned by the firm and have been put up by a corps of workmen especially skilled in that direction.

PEDRICK & AYER have about completed a new Universal milling machine which promises to engage favorable attention.

### Literary Notes.

An examination of the Illustrated London News (American reprint) for October 23d, will show the English view of the trial vacht race, illustrations in connection with the State of Ireland; Our Homeless Poor in St. James's Park at Midday, the British Mission to Morocco, and sketches on the River Congo. A Sleeping Beauty represents a handsome tiger at rest, while Christening Sunday presen's infancy surrounded by ad-mirers. The price of the number being rs. The price of the number being ten ceats places it within the reach of Every newsdealer has it. The office of ication is in the Potter Building, New publication York City.

THERE has been a very great change in the public taste for fiction within a short time. Until R. L. Stevenson and H. Rider Haggard entered the field with their imaginative stories, what is known as the analytical novel, held public attention, and the hero and heroine whose feelings were dissected took the place of those about whom a plot was woven. Now a new order of things has come about, the public having again tasted the delights of imaginative tales crave more, and the writer who weaves the most exciting plot is the one who finds the greatest favor. A gentleman, who hides his identity behind a simple "Q." has written a novel called "Dead Man's Rock," which Messrs. Cassell & Co., Limited, have which means a casel to con binded, have nearly ready for publication, and which, it is predicted, will arouse the novel reading world to a pitch of excitement not even reached by the publication of "King Soloon's Mines

"A LADY OF THE OLD SCHOOL" is the pening paper in the November number of The Atlantic Monthly. It is a most charming resume of Mrs. Susan Lesley's "Recollections" of her mother, Mrs. Lyman, of Northampton, and of the society which she gathered around her. Miss Jewett has a delightful sketch of a New England by-way called "The Landscape Chamber," a curious story, full of suggestion. Percival Lowell continues his series of articles, "The Soul of the Far East," by a paper on Oriental art, and John Fiske has another of his clear and readable studies in American history, this time devoted to an account of the adoption of the Constitution-a very timely topic Mr. Philip Gilbert Hamerton, in the sixth paper of his "French and English" series, considers "Variety in the Indulgence of Sense as a Result of Individuality," and shows the fallacy of attributing certain deshows the fallacy of attributing certain defects often met with in a foreign country to all its inhabitants. A careful description of the "Red Cross" society and its work is given by Helen H. S. Thompson, and Bradford Torrey has a pleasant paper on "An Old Road." "Historic Points at Fort George Island" are depicted by S. G. W. Benjamin, A paper on "Girl Novelists of the Time," three poems of merit, and the serials by Mrs. Oliphant and Mr. Aldrich and by Mr. Crawford, close a number of more than usual worth. Houghton, Mifflin & Co., Boston.

"TUSKALOOSA, ALABAMA," is the title of a handsome pamphlet just received, the pages of which are given to a description of that attractive town and surrounding country. It sets forth in graphic language Tuskaloosa's history, present condition, &c., its natural resources, its facilities for the manufacture of iron and coke, cotton goods, brick, agricultural implements, wagons, furniture, woodenware, &c. Considerable space is devoted to the splendid agricultural region around Tuskaloosa, and its adaptability to stock raising, dairy farming, &c. There are engravings of the principal streets and buildings, and maps showing the geographical location of Tuskaloosa. The pamphlet is an extremely interesting one, and will be sent free on application to the Tuskaloosa

THE Decatur Land, Improvement & Fure Co. have issued an attractive pamphlet entitled "Northern Alabama, and Decatur, Its New Industrial City. Resources and Attractions of 'the Chicago of the South.' " is a clear, concise and conservative state ment of facts bearing on the advantages capabilities and progress of Decatur, and the resources of the country tributary thereto. The pamphlet is fully illustrated with engravings and maps. Persons who have any idea of moving South should procure a copy before deciding upon a location.

#### Speed on Southern Railroads

The Queen & Crescent Route, running trains from Cincinnati to New Orleans and Shreveport, La., and passing through Chattanooga, Birmingham. Tuskaloosa, Meridian, Jackson and Vicksburg, has, with its "Queen & Crescent Limited Express," reduced the time between Cincinnati and New Orleans (327 miles) to twenty-five and a half hours. This train leaves Cincinnati at 7.55 A. M., and arrives at New Orleans at 9.30 next morning.

### Important.

When visiting New York city, save bag gage express and carriage hire, and stop at the Grand Union Hotel, opposite Grand

Central Depot.
600 handsomely furnished rooms at \$

600 handsomely furnished rooms at \$1 and upwards per day. European plan. Elevators and all modern conveniences.

Restaurants supplied with the best. Horse cars, stages and elevated railroads to all depots. You can live better for less money at the Grand Union Hotel than any other first-class hotel in the city.

TRAVELERS bound for Boston will do well to stop at the favorite American House in that city, where all the comforts of a quiet first-class botel and all the luxuries of the eason at table may be enjoyed at popular prices.

THE Palace Hotel, Cincinnati, Ohio, is aid to enjoy the reputation of being the best \$2 hotel in America. 250 rooms; 14 front rooms. All conveniences and excel

THE St. Charles Hotel, of Lowell, Mass THE St. Chaires Flote, or advantage is situated convenient to the depots and near the principal manufacturing interests of the city. It is fitted up with all the modern improvements and has all the comforts of home.

WHEN in Baltimore stop at the St. James Hotel, corner of Centre and Charles streets. Beautifully situated near the Washington Monument, accessible by street cars to all parts of the city, the St. James deserves its splendid reputation. Under the new management the house has been improved and put into first-class order. The Cafe is second to none. Rooms can be had either single or en suite.

### A. P. THAYER, Solicitor of U.S. and Foreign PATENTS,

No. 86 Astor House, New

Experience of Over 26 Year



### BOOKS

### Engineers and Manufacturers.

METAL-PLATE WORK; its Patterns and their Geometry. Also notes on motals and rules in memuration. For the use of tin, iron and rinc-plate workers, coppersmiths, boiler makers and others. By C. T. Millis. 312 pages, with air plates and numerous diagrams. 8vo, cloth \$3.

Practical Electric Lighting. By A. B. Holmes. Explaining the principles in plain language, and giving instructions as to the proper care of the apparatus. 183 pages with 89 illustrations. 8vo, cloth \$1. Catalogue and circulars free.

E. & F. N. SPON,

NEW YOR

ESTABLISHED IN 1865.

## Locomotive & Machine Works The Richmond I

VIRGINIA. RICHMOND.



Successors to the TANNER & DELANEY ENGINE COMPANY.

Having added to their extensive plant a large number of special tools, are prepared to build of the latest and most approved designs-

LIGHT LOCOMOTIVES, Passenger, Freight, Tramway, Noiseless Street Motors and Mine Engines. Also Pole Road Locomotives, the only successful device of the kind made.

ENGINES, Stationary and Portable, 12 to 300 horse-power. BOILERS, Standard and Special, 12 to 300 horse-power. GAS, WATER, CREOSOTING and other Heavy Machinery.

Correspondence invited. Catalogues, specifications, photographs and estimates furnished on application.



RADLEY & CO. SYRACUSE, NEW YORK, OF

### KER MANFG. CO.



Shafting, Hangers, Pulleys.

Pulley Castings and Machine-Molded GEARING

A SPECIALTY.

Cleveland, - Ohio.

Estimates furnished. Write for Gear and Price-Lists A.





SPECIALTY

ALL SIZES

Patent Quick Return

LATEST IMPROVEMENTS.

Bickford Drill Co.

Cor. Front and Pike Streets,

CINCINNATI, O.



Is the Highest Achievement yet reached in Writing Machines.



Although not so well known as its predecessors, it has at once sprung into popular favor, and the manufacturers are taxed to supply the demand. It has been on the market long enough to theorosphiz test its wearing qualities, and the judgment of all who have used them is that it is the "ne plus ultra" of Type Writers.

Two different styles of type accompany each machine, and other styles can be instantly inserted. The manufacturers of the Hammond solicit business solely upon the ground of superior merit in their particular instrument. An examination, trial and test of the Hammond is solicited by all intending purchasers of Type Writers.

Writers.

NOTED FOR speed, absolutely perfect alignment, is light and portable, writes on any width or length of paper, writes on any width or length of paper, writes on any other machine, and its work is always in sight. Send for circulars and specimes of its work to

#### HAMMOND WRITER CO.

75 and 77 Nassau Street,

Baltimore Office No. 15 N. Charles Street.

NEW YORK.

### $\mathsf{MIO}$ HEPANOUS **ENSILAGE**



to accidents than any sizes, six for power, riers. Our illustrated uable information on re. sent free. Liberal

Silver & Deming Manufacturing Co. SALEM, OHIO.

### PUNCH AND DIE GRINDER.



Springfield Glue & Emery Wheel Co. SPRINGFIELD, MASS.

To sell a half interest in a well established and paying Furniture Factory. Factory situated so as to control Florida trade almost without competition. Will sell half interest only, and only to a man of good business experience, who could look after office work. Address W. F. MOOSS,

THOMASVILLE, GA.

Four Gold Medals at New Orleans.

1885.

cular Saws, solid and ed point. Crescent d Cross Cut Saws, Mill, Mulay and Drag Milled Tooth Band

Simonds Mfg. Co.

and Washington Sts. CHICAGO, ILI

JOYCE, CRIDLAND & CO.

Cor. Wyandot St. and R. R. DAYTON, O.

MANUPACTURERS OF

J. O. JOYCE'S

Patent Lever Jacks, Compound Lever and

SCREW JACKS.

go varieties of Lever and Screw Jacks for railroad use. Please send for illustrated catalogue

### Creamery and Dairy Machinery AND SUPPLIES.

Outfits and Machinery for Cheese Factories. Write for Illustrated Catalogue,

JOHN S. CARTER, Syracuse, N.Y. 47 & 49 West Jefferson Street.





## THE REMIER FLOUR atapsco Flouring Mills.

ESTABLISHED 1774.-

The value of Flour depends upon the essential elements of nutrition contained in the bread it makes. Our PATENT ROLLER FLOURS are manufactured from the choicest wheat obtainable. Baltimore stands pre-eminent in this country as a market for choice wheat, which gives us a great advantage in the selection of the best that is grown. The superior combination of gluten and phosphales thus afforded enables us to place on the market Flour unequaled for its purity and nutritious properties. This fact is recognized, not only in this country, but in Europe as well, where the "PATAPSCO SUPERLATIVE" commands decidedly more money than any other American Flour, thereby clearly demonstrating its superior qualities for making the whitest, sweetest and most nutritious bread.

ASK YOUR GROCER FOR

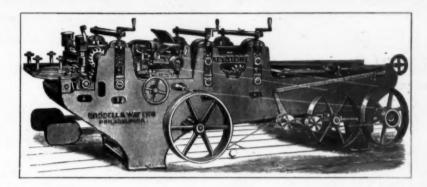
PATAPSCO SUPERLATIVE PATENT,
NORTH POINT FAMILY,
ORANGE GROVE EXTRA,
BEDFORD FAMILY,
BALDWIN FAMILY,

### A. GAMBRILL MNFG CO.

Office, 214 Commerce St., Baltimore, Md.

# "KEYSTONE"

Rapid Feed Flooring Machine.



SEND FOR DESCRIPTIVE CIRCULAR AND PRICES.

GOODELL & WATERS, Manufacturers,

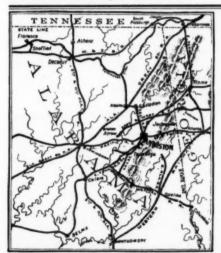
WESTERN WAREROOMS:

11 and 13 S. Canal Street, CHICAGO, ILL.

MR. C. L. RICE, MANAGER.

3002 Chestnut Street,

PHILADELPHIA.



\*LEDBETTER & CO.\*

LAND & LOAN ASSOCIATION.

Commission Dealers in-

Lands, Stocks and Bonds.

— CITY AND MINERAL PROPERTY—

A SPECIALTY.

Capital Stock \$100 000 CORRESPONDENCE SOLICITED. ANNISTON, ALA.

Buy

THE NEW SOUTH."

PRICE \$2.50.

HANDSOMELY BOUND IN CLOTH,

MANUFACTURERS RECORD CO., Publishers.

BRIDGEPORT BRASS CO., 19 Murray Street,

Sheet Brass, Seamless & Brazed Brass Copper Tubing

BRASS and COPPER WIRE, and RODS,

Gas and Kerosene Burners and Trimmings. The Celebrated Leader Burner a Specialty.

ELECTRIC COPPER WIRES, Plain and Covered. Particular Attention given to Cutting Blanks and Metals to Order.



# NIAGARA

### TINNERS' MACHINES AND TOOLS

For Working Sheet Metal, &c.

Squaring and Circle Shears, Fruit Can Dies and Tools, Canners' Outfits.

Superior, Corner of Randall Street, BUFFALO, N. Y.

Write for our Catalogue and Price List and ention this paper.



### Covert Manufacturing Company.



The Greatest Emporium in the World for the best Snaps, Chain, Rope and Web Goods, &c., manufactured, is the celebrated works of the

# Covert Manufacturing Co. West Troy, N.Y.

For Sale by all lobbers Handling this Class of G.

Licensed by and Succeeding to the Commercial Business of the

### SAUNDERS' SONS.

MANUFACTURERS OF THE ORIGINAL



Pipe Cutting and Threading Machine.

BEWARE OF IMITATIONS. me genuine without our Trade Mark and name. Also

Patent Wheel Pipe Cutter

STEAM AND GAS FITTERS' Pipe Cutting and Threading Machine

r Pipe Mill Use a Specialty. Send for Catalog YONKERS N. Y.



HOWELL'S PATENT

### Rain Water Cut-Off.

For turning the water into or off the Cistern by merely moving the lever from one side to the other. It is made of tin, and is light, cheap rable. Write for circulars and prices manufacturer Mention this paper. and durable

G. W. HOWELL, Covington, Ky.

# SYRACUSE TWIST DRILL CO., Syracuse, N. Y., U. S. A.

For WOOD and METAL.

Measuring Machines, Com-parators, Reamers, Drill Chucks, Tool Holders and Special Tools.

nd for Illustrated Cataloguand Prices.



Mutual Life Building, No. 32 Nassau St., N. Y. City.

BALTIMORE OFFICE:

o. 217 E. Fayette St. PHILADELPHIA OFFICE:

o. 205 Wainut Place. BOSTON OFFICE:

No. 33 Federal Street.

The DYNAMO of this Company is AUTOMATIC in its regulation, and will maintain a UNIFORM LIGHT, with ALL or ANY PORTION of the lights in Circuit. Our LAMP will not BLACKEN and will MAINTAIN its CANDLE POWER during its Guaranteed life. and Estimates Furnished for all kinds of Incandscent Lighting.
ESTIMATES FURNISHED FOR THE THOMSON-HOUSTON SYSTEM OF ARC LIGHTING.

OILS for WOOLEN MILLS a Specialty.

We manufacture a line of Fire Proof Safes that combine all the modern im-provements and meet with ready sale among business men and dealers of

Any business house can handle our Safes in connection with any other line of goods without additional ex-pense or interference with any other

Inside Measure, Outside Measure, Price. No. 2, 250 lbs. 12x8x8½ in. 23x14x13 in. 830 No. 3, 500 lbs. 15x10x10 in. 25x18x18 in. 35 No. 4, 700 lbs. 18x14x12 in. 32x22x21½ in. 45

ALPINE SAFE CO., Cincinnati, O.



BALTIMORE.

NSON & SON,

JAX STEAM-POWER COTTON PRESS.

ATLAS ENCINES AND BOILERS.

Mill and Plantation Machinery of every description.

Correspondence solicited,

217 (Old No. 81) South Street.

ELAIN OIL. Always satisfactory. Will scour out perfectly in any water.

OVEJA OIL. The best Mineral Wool Oil made. Gives satisfaction to our trade who use it.

LANA OIL. A very good oil, but does not scour out as well as Elain in very hard water.

OWNERS

PATENTS.

WE ALSO CARRY IN STOCK:

B. W. SPERM OIL, COLOPHINE CYLINDER, W. SPERM OIL. COLOPHINE ENGINE. PRIME LARD OIL, COLOPHINE SPINDLE,

PARAFFINE

AND ALL OTHER KINDS OF OIL

Ar Correspondence Solicited and Samples Forwarded, if desired.



| HARDWARE.  ***Baltimore WHOLESALE Prices.**  ***Eagle and Vulcam.**  ***ANTILA.**  ***Eagle and Vulcam.**  ***ANTILA.**  ***Eagle and Vulcam.**  ***Prices.**  ***Can.**  ***Withintore **.**  ***Conn.**  ***Conn   |   |
|--|---|
| Eagle and Vulcan   | → HARDWARE. ←   |
| Eagle and Vulcan   | Baltimore WHOLESALE Prices.   |
| Expansive Bits Blake's   | Eagle and Vulcan  |
| Expansive Bits Blake's   | Conn. Valley Mig. Co  |
| Sewing Brass Ferrule  Patent Sewing, Short  Patent Sewing, Long  Patent Sewing, Long  Patent Sewing, Long  Awis, Shouldered Prop. 510 % gross—dis 45%to 5  Patent Peg, Lian Top. 510 % gross—dis 45%to 5  Awis, Shouldered Prad. 52 % awis, Shouldered Prag. 1.20—dis 25 % awis, Patent Peg  Awis, Braud Brad. 57.50 % gross—dis 45%to 5  Awis, Shouldered Brad, \$ gross \$2.0—dis 25 % awis, Patent Peg  Awis, Brouldered Brad, \$ gross \$2.0—dis 25 % awis, Handled Brad. \$7.50 % gross—dis 40 % Awis, Handled Brad. \$7.50 % gross—dis 40 % Brad Sets, Aiken's. \$2.00 % 82.0—dis 26 % Brad Sets, Stanley's Exc. No. 1, 50.50 dis 308to 5  Brad Sets, Stanley's Exc. No. 1, 50.50 dis 308to 5  Brad Sets, Stanley's Exc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Exc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Single Bit, 4% to 5 and under. \$2.00 set 00.00 \$2.50 set   | Lower and Hank Kail Bits  |
| Sewing Brass Ferrule  Patent Sewing, Short  Patent Sewing, Long  Patent Sewing, Long  Patent Sewing, Long  Awis, Shouldered Prop. 510 % gross—dis 45%to 5  Patent Peg, Lian Top. 510 % gross—dis 45%to 5  Awis, Shouldered Prad. 52 % awis, Shouldered Prag. 1.20—dis 25 % awis, Patent Peg  Awis, Braud Brad. 57.50 % gross—dis 45%to 5  Awis, Shouldered Brad, \$ gross \$2.0—dis 25 % awis, Patent Peg  Awis, Brouldered Brad, \$ gross \$2.0—dis 25 % awis, Handled Brad. \$7.50 % gross—dis 40 % Awis, Handled Brad. \$7.50 % gross—dis 40 % Brad Sets, Aiken's. \$2.00 % 82.0—dis 26 % Brad Sets, Stanley's Exc. No. 1, 50.50 dis 308to 5  Brad Sets, Stanley's Exc. No. 1, 50.50 dis 308to 5  Brad Sets, Stanley's Exc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Exc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Brad Sets, Stanley's Arc. No. 3, 57.80 dis 308to 5  Single Bit, 4% to 5 and under. \$2.00 set 00.00 \$2.50 set   | Hol. Aug., Stearns' Adjust., is dor \$4.8, dis sockio \$ Hol. Aug., Ives' Kapansive, each \$4.50, dis sockio \$ Hol. Aug., Universal Expansive, each \$4.50, dis so \$ Wood's.  Gimlet Birs.  Gimlet Birs.  Gimlet Birs.  Double Cut Gimlet Birs, Shephardson's dis so \$ Double Cut Gimlet Birs, Shephardson's dis so \$ Double Cut Gimlet Birs, Douglass' dis so \$ Double Cut Gimlet Birs, Douglass' dis so \$ Mosse's Bir Stock Drill dis so \$ L'Hommedieu's Ship Augers dis so \$ L'Hommedie  |
| Collins & Co. Lippincott or Mann's.  Single Bit, 4% to 5% and under \$00s. \$5.75 net Single Bit, 4% to 5 and over \$00s. \$5.75 net Single Bit, 4% to 5 and over \$00s. \$5.75 net Single Bit, 4% to 5% and under \$00s. \$5.75 net Single Bit, 4% to 5% and under \$00s. \$5.75 net Double Bit, 4% to 5% and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$5.70 onet Double Bit, 4% to 5 and over \$00s. \$00s. \$40s. \$40s. \$00s. \$40s.  | Sewing Brass Ferrule  |
| Sheldon & Co., iron  | Awis, Sewing, Common  |
| Sheldon & Co., iron  | Collins & Co. \$7,00: beveled. \$7,20 Lippincott or Mann's. Single Bit, 4% to 5% and under. \$8 dos. \$6,75 net Single Bit, 4% to 6 and over. \$8 dos. \$7,25 net Single Bit, 4% to 6 and over. \$8 dos. \$7,25 net Double Bit, 4% to 5% and under. \$8 dos. \$7,20 net Double Bit, 4% to 5% and over. \$8 dos. \$7,20 net Double Bit, 4% to 5 and over. \$8 dos. \$7,20 net Double Bit, beveled. \$1.00 \$8 dos. advance Double Bit, beveled. \$7.00 \$8 dos. advance Second quality Azes. \$75 to issis than above  |
| Hand, Light Brass dis 75&10 s Hand, Silver Chine dis 15&10 s Gong, Abbe's dis 15&10 s Gong, Abbe's dis 15&10 s Gong, Abbe's dis 15&10 s Gong, Barton's dis 15\$ s Gong, Barton's dis 15\$ s Leon Reading dis 25&10 s Lever, Sargent's dis 25&10 s Lever, Sargent's dis 25&10 s Lever, Sargent's dis 25&10 s Lever, R. & E. M. O's dis 45&10 s Lever, R. & E. M. O's dis 25&10 s Lever, R. & E. M. O's dis 25&10 s Lever, Common Wrought. dis 25&10 s Lever, Common Wrought. dis 25&10 s Lever, Common Wrought. dis 25&10 s Cow, Common Wrought. dis 25&10 s Lever, R. & E. M. O's dis 25&10 s Lever, R. & E. M. O's dis 25&10 s Lever, Common Wrought. dis 25&   | Sheldon & Co., iron   |
| Moider's. dis 50 x Hand Bellows dis 50 x Francis. dis 30 x Mackrell's. dis 30 x Mackrell's. do pairs \$1.00, dis 30 x Mackrell's. do pairs \$1.00, dis 30 x Van Sand's Screw Pattern, \$1.5 \$ gross, set. dis 60 x Van Sand's Oid Pattern \$1.5 \$ gross, set. dis 60 x Van Sand's Oid Pattern \$1.5 \$ gross, set. dis 60 x Van Sand's Oid Pattern \$1.5 \$ gross, set. dis 60 x Van Sand's Oid Pattern \$1.5 \$ gross, set. dis 60 x Van Sand's Oid Pattern \$1.5 \$ gross, set. dis 60 x Merriman's, 10 in \$1.5 \$ gross \$3.0.0  Zimmerman's, 10 in \$2 \$ gross \$3.0.0  Zimor Barrel Shutter, \$2 \$ dis 50 x to \$2 \$ gross \$3.0.0  Zimor Barrel Shutter, \$2 \$ dis 50 x to \$2 \$ gross \$3.0.0  Zimor Barrel dis 50 x to \$3 \$ gross \$ gross \$3 \$ gross | Hand, Light Brass dis 19 km. |
| Barbed, 36 in and larger \$ Bo one to Barbed, 36 in \$ Bo one to Barbed, 36 in \$ Bo one to Barbed, 36 in \$ Bo one to Barbed Blocks \$ BLOCKS.  Penfield Blocks \$ BLOCKS.  BOLTS.  Cast Iron Barrel Shutter, &c dis 70 \$ Cast Iron Chain (Sargent's list) dis 65 & n \$ Wrought Barrel dis 10 \$ Wrought Square dis 10 \$ 90 \$ Wr. Shutter, Blas Knob, Staaley's list dis 60 & n \$ Wrought Shutter, Sargent's list dis 60 & n \$ Wrought Shutter, Sargent's list dis 60 & n \$ Wrought Shutter, Sargent's list dis 60 & n \$ Wrought Shutter, Sargent's list dis 60 & n \$ Wrought Shut Flush, Sargent's dis 50 & n \$ Wrought Shut Flush, Sargent's dis 50 & n \$ 0 \$ \$ Wrought Shut Flush, Sargent's dis 50 & n \$ 0 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  | Moider's dis 50 \$ Hand Bellows dis 50 \$  Prancis dis 50 \$  BLIND PASTENERS. dis 50 \$  Mackrell's dis 50 \$  Was Sand's Screw Pattern, \$15 \$ \$ gross, net. dis 50 \$  Van Sand's Old Pastern, \$15 \$ \$ gross, net. dis 60 \$  Van Sand's Old Pastern, \$15 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$  |
| Pennield Blocks  | Barbed, % in. and larger 10 9c net<br>Barbed, % in 10 D roc net   |
| Cast Iron Barrel Shutter, &c   | Penfield Blocks   |
| Q. S. Backus   | Cast Iron Barrel Shutter, &c  |
|  | Q. S. Backus  |

## Cleveland Ship Building Co.

Cuyahoga Steam Furnace Co. CLEVELAND, OHIO. BLOWING ENGINES

Blast Furnaces

Steel Plants -A SPECIALTY.

OUR NEW BLOWING ENGINE NOW FOR SALE, SIZE: der. .....36x48 | Air Cylinder

STEAM HELVE HAMMERS,

Engines and Boiler

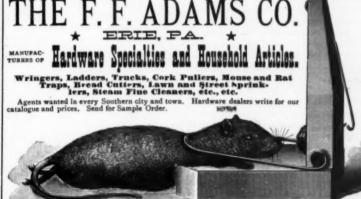












Galvanized,

STOCK OF Galvanized Poultry Netting.

STEARNS' NEW DOOR CLAMP. E.(.STEARNS. &.(O. SYRACUSE. N.Y. SEND FOR (IRCULAR F FOR SALE BY THE TRADE.



100 " 100 Bot CLEVELAND TWIST DRILL CO. | Send for Catalogue | 24 & 26 Weed-st., Classicand, O. and prices. | 101 Chambers-et., Fore Torib.

| 3.0  |
|--|
| Phillips, with Augersy.so y.goset  |
| Shelf, pinindis pokto s<br>Shelf, hacydis gakto s  |
| Mew list   |
| Union Nut Codia 55 fi<br>Sargant's dia 60kto 5<br>Humason, Beckley & Co'sdia 70 fi<br>SUTTS.   |
| Humason, Beckley & Co's.  Wrought Brass.  Olas Surrs.  dis 80 p. Cast Brass, Fast Joint.  Cast Brass, Loos Joint.  Say Joint.  Gast Brass, Loos Joint.  Cast  |
| Fast   Joint, Narrow   dis 705   Fast   Joint, Lt. Narrow   dis 705   Fast   Joint, Broad   dis 705   Loose   Joint, Broad   dis 705   Loose   Joint, Broad   dis 705   Table Butts, Back Flaps, &c   dis 705   Table Butts, Back Flaps, &c   dis 705   Inside Blind, Regular   dis 705   Inside Blind, Regular   dis 705   Loose Fla, Wright   dis 705   Loose Fla, Wright   dis 705   Spring Hingssson   Geor's Spring and Blank Butts   dis 30   Hart Manufacturing Co   dis 608 to 8   American Spring Hings Co's   dis 608 to 8   American Spring Hings Co's   dis 608 to 8   |
| Humason, Backley & Co's  |
| Gem Spring Hinges dis 25 g mow price.  Humason, Backley & Co's dis 25 g mow price.  Humason, Backley & Co's dis 25 g mow price.  Horichkist dis 25 g mow price dis 25 g mow price.  Humason & Beckley Mfg. Co. dis 26 g g mow price.  Humason & Beckley Mfg. Co. dis 26 g g mow price.  Bradley's dis 25 g mow price.  1 9 3 4 5 7 8 g f f g mow price.  |
| ## CAP C. P. C. Primmed  U. M. C. P. S. B. S.  |
| U. M. C., F. C. trimmed  |
| Central Fire, pistol «las  |
| Rim-fire, so short   |
| Carries File—gs, gri.co; gs, gri.co; q4, ggs.  CARDS.  Horse and Curry   |
| CARPET STRUTCHERS.  Cast Iron, Polished  |
| CARPET STRETCHERS.  Cast Steel, Polished   |
| Sargent's dis 70 5 P. S. & W dis 30 5  |
| German Halter and coil Chain   |
| White \$ gross 550 and Red \$ gross 750 and Red \$ gross 750 and White Crayons . \$ gross 750 and White Crayons . \$ gross 750 and   |
| Cotton Fish Lines  |
| COTTOR LINES.  Cotton Fish Lines. so feet:  Moz. 0, 1, 2, 3, 3, gu. so 5 6.00. 6.50. 7.00. 7.50. gu. so 5 6.00. 6.50. 7.00. 7.50. gu. so 5 COLERELS.  Socket Framing Crossmans. dis 65kt 5 Socket Framing & Firmer. No. 1. Extra. Socket Framing & Firmer. No. 2. Extra. Socket Framing & Firmer. No. 2. Extra. Socket, Onlo Tool Co. 7285 735 Socket, Onlo Tool Co. 7285 735 Socket, Corner. Douglass' 15k 735 Socket, Corner. Douglass' 15k 735 Socket, Corner. Socket Stone & Wilcox. 7285 735 Socket, Corner. Socket Stone |
| Iron, Screw, Ragie   |
| Horway or Best dis failing 5 Superior dis 4282 5 Constogo dis 68820 5 Con Hode-Griffiths' dis 98   |
| Globe, new list  |
| Parker's   |

### бне Факкель.

OFFICE MANUFACTURERS' RECORD, BALTIMORE, Oct. 26, 1887.

There has been some little improvement in general business in this city and State over the condition of trade last week, and, but for the heated political campaign, there would be still more doing. As it is merchants are very well satisfied, especially with the character of the trade.

Manufactured iron is in very good demand, and the prices are steady and firm, orders keeping the mills running full time. Quotations are:

| Ref. Bar Iron, 1 to 6x36 to 1      | D.  | 3.100 | 8.40C   |
|------------------------------------|-----|-------|---------|
| " I to 4% x1% to 1                 | 44  | 3.10@ | 2.40C   |
| " 44 to's, round and               |     |       |         |
| square                             | 88  | 3.10@ | 8.40C   |
| Hoop Iron, 114 wide and upward     | 62  | 9.506 | 3 C     |
| Band Iron, from 11/2 to 6 in, wide | 66  | 2.400 | 2%c     |
| Horseshoe Iron                     | 65  | 3 6   | 3% C    |
| Norway Nail Rods                   | 44  | 480   | 5%C     |
| Black Diamond Cast Steel           | 66  | 1 6   | 0 C     |
| Machinery Steel                    | 86  | 3 6   | 456c    |
| Spring Steel                       | 66  | 3366  | 4 6     |
| Common Horse Nails                 | 66  | 1 0   | 0 0     |
| Railroad Spikes, 5%x9-16           | 88  | 2×6   | 2 0     |
| Steel Boiler Plate                 | 66  | 2X@   | 4 0     |
| Iron Boiler Plate                  | 0.0 | 246   | 4 6     |
| Boiler Tubes                       |     |       | ff list |
|                                    |     |       |         |

The pig iron market continues steady, there having been fewer fluctuations during the past two or three months than for any like period for years. The output is large, few, if any, furnaces being out of blast. The demand keeps close upon the production, and stocks show very little accumulation. Eastern mills are contracting for steel rails, winter delivery, at \$34@35 per ton. Outstations:

| Baltimore   |        |      |     |     |         |      |       |    |
|-------------|--------|------|-----|-----|---------|------|-------|----|
| Baltimore   | e ore) |      |     |     |         | \$08 | 00@19 | 00 |
| Virginia C. | B. C   | harc | lao | Whe | el Iron | 27   | 00@49 | 90 |
| Anthracite, | No.    | I    |     |     |         | 20   | 00@22 | 00 |
| 84          |        |      |     |     |         | 18   |       |    |
| 44          | 86     | 3    |     |     |         | 16   | 00@18 | 00 |
| 44          | Mot    | tled | and | Wh  | ite     | 14   | 00@15 | 00 |
| Old Rails   |        |      |     |     |         |      |       |    |
| Old Steel R |        |      |     |     |         |      |       |    |
| No. z Wrou  |        |      |     |     |         |      |       |    |
| Old Car W   | ficels |      |     |     |         | 18   | 00@19 | 50 |
|             |        |      |     |     |         |      |       |    |

### HARDWARE.

The demand for hardware continues good and prices firm. The volume of trade during the fall season has been large and very satisfactory. The combination of steel goods makers promises to be strictly adhered to, and orders are being placed rapidly at ruling prices for spring delivery. The Iowa Farming Tool Co., of Fort Madison, Iowa, have employed Messrs. Wier & Wilson, of New York and Baltimore, to represent their interests in the South and West. Shovel manufacturers are full of orders and are indifferent as to accepting additional orders at present prices. Stove Bolts have advanced to 62½ per cent. discount.

### Philadelphia Iron Market.

PHILADELPHIA, Oct. 25, 1887.

The past week is not developing the series of surprises which some brokers predicted. People are standing back to see which way several things will go. In the first place, there are 20,000 coal miners on a strike and coal may become very scarce. In the next place, we are jeopardized by a coke strike, which may cut off our supply entirely or advance prices suddenly. Then there are a good many large consumers of crude iron who do not know whether to buy now or wait. If they buy now, prices will boom Then there is, besides this, another difficulty in the way, the probability of railway construction next year. Besides the depression in price of steel rails there is some uncertainty in Bessemer, both American and foreign. This is the depression in price of the American article; the foreign article is not yet suffering. Mixed Bessemer is selling at \$20.25, but the best of foreign is \$21. A number of large contracts have been made by brokers here this fall, one house closing contracts for 40,000 tons during last month. The muck bar mills are very busy on a basis of about \$30.50. The merchant bar mills throughout the State report a strong activity on a basis of 2c., with on at 1.90. Reference

should be again made to the extraordinar demand for car iron; large orders are bein placed constantly. The Pennsylvania Com pany put an order in a few days ago for 50 cars, and all the trunk lines are in the mar ket awaiting their turn. The car iron makers expect to have, therefore, a ver good winter and strong prices. Nails ar quiet at 2.10 to 2.20. There is no prospec of the settlement of the nail trouble. plate and tank iron mills have all the busi ness they can handle; prices 2 30 to 2.50 Skelp is strong at 2c. to 2.05. Heavy shee iron is in good demand and one or two mills are now turning their attention to the execution of some large orders just received for heavy plate. Discounts on wrough iron pipe are very firmly held. Steels rail are quoted at \$34. Urgent buyers can be accommodated with December deliveries at much more reasonable prices than prevailed six weeks ago. It is rumored that the downward tendency will land steel rails at \$33 within a short time : rumors are cheap but it is best to make a note of them occasionally. The prospects for railroad construction next year are rather foggy. It is possible that as much railroad building will be done next year as this, but there are several contingencies in the way; therefore, it is not well to rely too much upon the bearish reports sometimes written. Old rails are firm in asking price, though we hear of very few

### Cincinnati Iron Market Report.

Specially reported by ROGERS, BROWN & Co., Pig Iron Commission. CINCINNATI, October 24, 1887.

The most prominent feature of the market just now is the attention which both producers and consumers are giving to the working out and cleaning up of old con-tracts. The consumption of iron continues at a heavy rate, heavier than the new business being booked, the difference being accounted for by what is coming forward on old orders. Requests are quite numerous to have deliveries made faster than contracted for All of this has resulted in bringing down to reasonable proportions the late overloaded condition of furnace order books. It is not so difficult to get iron for quick delivery, and there is in consequence an easier tone prevailing. The daily volume of orders being placed, however, seems to be up to a full average of ordinary times. There is some talk of very large orders to be placed soon. If this is done it will have a stimulating effect, which will be quickly seen in prices, but without this there is no immediate prospect of a change. The market may be called a sensitive one. The quotations given below are on the cash basis:

### 

| Mottled  |         | 44    |    |     |     |     | 6 6 |    |     |      |      |   | 16 | 00@16   | 50 |
|----------|---------|-------|----|-----|-----|-----|-----|----|-----|------|------|---|----|---------|----|
| Cold Sho | rtning  |       |    |     | 0 6 |     |     |    |     |      | <br> |   | 17 | 00@17   | 50 |
|          |         | WHE   |    |     |     |     |     |    |     |      |      |   |    |         |    |
| Southern | Car-V   | Vheel | Iz | 101 | n.  |     |     |    |     | <br> | <br> | 9 | 24 | 50@06   | 00 |
| Hanging  | Rock    | Cold  | B  | a   | st  | . 1 | N   | 0. | . 3 |      |      |   | 25 | 00(8)28 | 00 |
| Hanging  | Rock    | Cold  | B  | la  | st  | . 1 | N   | 0. | . 2 | <br> | <br> |   | _  | -0-     | -  |
| Lake Sup | erior ! | Malle | ah | la. | -   |     |     |    |     |      |      |   | -  | un@ar   | 20 |

### Louisville Iron Market.

Specially reported by GBO, H. HULL & Co., Commission Merchants for the sale of Hot and Cold Blast Pig Iron.

LOUISVILLE, KY., Oct. 24, 1887.

While the main features of the market have not changed materially for the past week, yet there is an improvement in the demand, although prices have not been much affected thereby. The demand is principally for mill grades, less being done with foundry and car wheel irons. Lots at furnaces which have been sold for delivery on resumption of navigation are still unmoved. Many buyers are still short of iron

Wire. Wire. Misson's dis 10 to 10 t

| -   |  | -      |
|---|--|--------|
| ry<br>ng<br>n-  | COMPASSES, DIVIDERS, &C. Compasses dis 708110 Calipers dis 708110 Dividers dis 708110 Cook's Pencil dis 10   | ***    |
| 00<br>r-<br>on  | Bradley's  |        |
| ry<br>re  | Cast Steel   | c      |
| ct<br>ie<br>i-  | CURLING IRONS, AC.  %, % in., \$1.80, 2.00, 2.00   | 200    |
| o.<br>et<br>o<br>e  | Fitch's new list   |        |
| t   | Silvered Glass ne  | - 1    |
| e it d  | Association (Table)  |        |
| £ . £   | Embossed Gilt  |        |
| t<br>t  | Torrey's Rod, regular size   |        |
| 5 0   | Middlesex Mfg. Co.   dia 75   S. Crossman's No. 1   dia 65&3   S. Nobles Mfg. Co.   dia 13   S. Bradley's   dia 15   S. Adjustable Handle   dia 20   S. W.   dia 75   S. Douglass   dis 75   Dou |        |
|   | Blacksmiths" \$1.65 net Blacksmiths" \$1.65 net Blacksmiths" Self-Feeding each, 7.50, dis 20 \$ Breast, P. S. &  |        |
|   |  |        |
|   | Dover  |        |
|   | Flour and F. F   |        |
|   | Kettles dis 50&to 5 Sauce Pass dis 30&to 5 Sauce Pass dis 30&to 5 Tinned Sauce Pass dis 30&to 5 Escutcheon Pins—Brass dis 50 5 ESCUTCHEONS.  | 1      |
| 10  | Door Lock. Same discounts as Door Locks Brass Thread dis 60 \$ Wood dis 25 \$  PAUCETS.  | 1      |
| li  | Fenn's dis 40 st Fenn's Cork Stops dis 33/5 s Star dis 60 s Frary's Patent Petroleum dis 60 s Frary's Patent Key dis 50 s Anchor Lock dis 40 s Anchor Lock dis 45 s Metallic Key, Leather Lined dis 50 s Cork Lined dis 50 s Losmmer's Best Metallic Key dis 40 s Sommer's Cork Lined, st quality dis 50 s Sommer's Cork Lined, st quality dis 50 s  | 0      |
| A 400 | E. M. Boynton's new list, dis as § Western File Co dis 60&10 § Sutcher's 44, 50 to £ Moss & Gamble 44, 50 to £ H. Disston & Sons (new list) dis 60 § Heller Bros.' Horse Rasps dis 50 & 5 Nicholson dis 60&10 § New American dis 60&10 § Taion File Co dis 60&10 § Stubs, new list \$7.50 to £, 25 \$6ff   | S      |
| B B B B B B B B B B B B B B B B B B B   | FLUTING MACHINES.  Caox, 4%-inch Rolls \$3.50 each   dis 35 \$ (aox, 6-inch Rolls \$4.00 each   dis 35 \$ (aox, 6-inch Rolls \$4.00 each   \$6.50 each   \$  | F S    |
| 1000  | awson & Brenizer   | PRGHHH |
| 1 23  | urnished list as followsdis 70 %   | -      |

No .....0 2 2 3 4 5 \$\doz...\\$3.00 3.75 4.25 4.70 5.25 6.00 7.

|          | 1   |
|----------|---|
| ***      | Sargent's Patent  |
| *        | Eley's B. E. wads, 11 upwards   |
| in the   | Eley's B. E. wads, 11 upwards \$1.7  " 9 and 10 \$0.6  " 7 8 \$2.8  " P. E. " 11 upwards \$2.9  " " 9 and 10 \$3.4  " " 7 8 \$4.4   |
| 000      | Maydole's   |
| *        | Warner & Noble's dis 40 Kip's or Selsor's dis 30 Yerkes & Plumb dis 40 Hartford Hammer Co's New List—   |
| ****     | Sledges   |
| ***      | Per doz\$0.90 1.00 1.18 1.35 1.50dis 60&10; Roggin's Latches  |
| et<br>et | Jap'd Store Door Handles—Nuts, \$1.62; Plate, 2.10 no Plate   |
| et<br>et | Wrought Chest         dis 65&xo           Surface Chest         dis 55&xo           Flush Chest         dis 55&xo   |
| *        | Saw and Plane   |
| ×××      | Brad Awl  |
| 0        | HANDLES.—Door or Thumb Latches.  Nos. 0 1 3 3 1.90 dis 60kto;  Roggin's Latches. \$\\\\$ dos 35.6\\\\$ dos 60kto;  Roggin's Latches. \$\\\\\$ dos 35.6\\\\$ dos 70\\\\$ goog 1.00 1.18 1.35 1.90 dis 60kto;  Roggin's Latches. \$\\\\\\$ dos 35.6\\\\\\\\\$ dos 100 goog 1.00 1.18 1.35 1.90 dis 60kto;  Roggin's Latches. \$\\\\\\\\\$ dos 35.6\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\  |
| XXX      | White Mountain, per doz   |
| ***      | Cronk Hanger Co.—  No. 4, per doz. pair   |
|          | Cronk Hanger Co.—   No. 4, per doz. pair   \$12.00, sokto 9     No. 4, per doz. pair   \$14.40, sokto 9     St. 4   1   14.40, sokto 9     Iron clad track   9 cents per foot, sokto 9     Barn door stays   \$3.00 per doz. sokto 9     Barn door stays   \$3.00 per doz. sokto 9     Anti-Friction Barn Door Hanger, \$40.00 pair, \$40.00 pair, \$40.00 pair, \$40.00 pair, \$5.00 & 40.00 per doz. \$40.00 pair   \$5.00 & 40.00 pair   \$5.00 pair   \$5.00 & 40.00 pair   \$5.00 pair |
|          | Cronk's Pat. Wire Cutter and Bender, 8 in., \$15.00 & 405.  |
|          | Barn Door, old patternsdis 60&10 % Barn Door, New Englanddis 60&10 % Climax (Anti-Friction)dis 50 %   |
|          | Warner's  |
|          | Smith   |
|          | Price Soild Steel   |
|          | HATCHETS.   40km   5  |
|          | Gem   |
|          | Blind Hinges— Shepard's "Noiseless" (Nos. 50, 60, 65 and 55)  |
|          | Shepard's "Noiseless" (Noa. 50, 60, 65 and 55) Shepard's "Niagara" Gravity. dis 75 108.5 \$ "Buffalo" Gravity. dis 75 108.5 \$ "Champion" Gravity. dis 75 108.5 \$ "Steamboat" Gravity. dis 75 108.5 \$ "Gueen City" Reversible. dis 708.10 \$ "Acme" Lull & Porrer, dis 78.2 \$  |
|          | " "O.S" " "dis 75&10 \$ Huffers   |
|          | Standard Lull & Porterdis 75&10 \$ Standard Lull & Porterdis 70&10 \$   |
|          | Shepard's (Nos. 1, 2, 3, 10 and 20)dis 60 10& 20 5 Plate Hinges   8, 10& 12 ib   3c.  |
| 1        | and Strap. 1 14 to 36 in  |
| 1        | Crown Screen Door Latch B gross the die es &  |
| 1        | Bickford Portable r'umpeach \$6, dis 20 \$ American Cake Mixer, No. 6each \$3,50, dis 20 \$ American Tobacco Cutter   |
| 1        | A. M. Co. Clothes Wringer, No. 2 rolls, 10x134, \$ dos; No. 234 rolls, 12x134, \$48; No. 2 Japan \$41.00 dos.;  |
| 1        | \$33.00 doz   |
| 1        | Screw Hook and Eye   3/2 & x in   |
| 100      | Crown Christmas-Tree Holders, 2-inch, \$\frac{\pi}{2}\$ dis 20 \$\frac{\pi}{2}\$ sinch, \$\frac{\pi}{2}\$ as \$\frac{\pi}{2}\$ dis 20 \$\frac{\pi}{2}\$ Bickford Fortable Fump  |
| 1        | Planters  |
| 1        | HANDLES.<br>Axe, Pick, Sledge, Hammer and Hatchetdis 33 % \$  |
|          |   |
| 00       | Finish'd \$ D.3rc a8c a6c a5c a4c a3cdis ao&ro \$ Clint'n, P'n, " a3c arc aoc a9c 18cdis ao&ro \$ Clint'n, Fin'd " a4c asc arc aoc 19cdis ao&ro \$ Clint'n, Fin'd " a4c asc arc aoc 19cdis ao&ro \$ Casex. \$ Darc a8c a6c asc arc aoc dis  |
| 1        | Ausable: Nos. 5 6 7 8 9 20 Plain, \$ B 31c s8c s6c s9c s4c s9cdis so&to \$ 9 Plain, \$ B 31c s8c s6c s9c s4c s9cdis so&to \$ 9 Plain, \$ B 31c s8c s6c s9c s4c s4c s1cdis so&to \$ Plain, \$ Pla, " 39c s1c s0c 19c 18cdis so&to \$ 2lint'n, \$ Pla, " 34c s8c s1c s0c 19c 19cdis so&to \$ 8 sex, \$ B 31c s8c s6c s9c s4c s9cdis so&to \$ 8 sex, \$ B 31c s8c s6c s9c s4c s9cdis so&to \$ 8 sex, \$ B 31c s8c s6c s9c s4c s9cdis so&to \$ 8 sex s4c s9cd   |
| 1        | Forged & D are also ase are are are dis solvio &  |
| 1        | L. C., B.Ds8 ag ag ag ar ar.dis ro,tokty g<br>C. B. }s8c agc agc asc arc arcdis ro&ty g<br>New Havengrc a8c a6c agc agc agc.dis go&to g   |
| 1 2      | Canawall  |

and are only ordering quantities necessary for immediate use. While many believe that the market is weakening, yet the prethat the market is weakening, yet the pre-ponderance of opinion is that it must necessarily be stronger. Prices for scrap iron have fluctuated very much of late without apparent reason. Large consumers who secured quantities of scrap iron when it was low, are inquiring for open soft iron that will carry a large percentage of scrap. We quote as follows:

### Chicago Iron Market.

Specially reported by Rogers, Brown & Co. W. W. BACKMAN, Resident Agent. CHICAGO, Oct. 24, 1887.

Trade continues to be active in a small way: that is to say, numerous but small orders, with the one exception of Lake Superior charcoal iron, which has met an imperior charcoal iron, which has met an improved demand from buyers who would be effected by the closing of navigation, which is now not very far off. Southern brands of coke iron are not offering here as freely as usual, which is attributed to the fact that during the past ten days that district has been selling liberally in the East, and therefore not so inclined to compete for closely contested orders in this field. The demand for Ohio softeners is well sustained, readily absorbing all offerings at full market readily absorbing all offerings at full market rates. We quote for cash f. o. b. cars Chicago:
Coke and Stone Coal Pounday.
Coke and Stone Coal Pounday.

| Ohio (H  | anging  | (Rock)    | Softener | s No. 1 | SI  | 500002 | 50 |
|----------|---------|-----------|----------|---------|-----|--------|----|
| " Bla    | ckban   | d         | 64       | **      | 21  | 50@22  | 50 |
| " Jac    | kson o  | county    | 44       |         | 22  | 500003 | 50 |
| er La    | ke ore  | and cin   | der "    | 88      | 93  | 00@22  | 00 |
| Southern | Coke    | . No. 2   |          |         | -   | 00000  | 00 |
| 66       | 86      | No. al    | ۷        | ******  | 90  | somer. | 50 |
| 44       | 44      | No. 3     | ****     | ******* | 90  | 00@21  | 90 |
|          |         | CHARC     | DAL FOU  | NDRY.   |     |        |    |
| Lake Su  | perior  | 0.01      |          |         | fan | 500023 | 90 |
| Southern |         |           |          |         | 22  | 50(023 | 00 |
| Hanging  | Rock    |           |          |         | 24  | 50@25  | 50 |
|          |         |           |          | ALLEARS |     |        |    |
| Lake Su  | perior. |           |          |         | 23  | 500003 | 50 |
| Standard |         |           |          |         |     | 00@26  |    |
| Hanging  | Rock    | , cold bl | ast      |         | 87  | 00(829 | 00 |
| 99       | 56      | warm      | blast    | 0.00    | 23  | 50@24  | 50 |
|          |         | OLD       | MATERI   | ALS     |     |        |    |
| Old Rail | . Amei  | rican     |          |         | 24  | 000025 | 00 |
| Old Whe  | els     |           |          |         |     | 50@s1  |    |
|          | -       |           | _        |         |     |        |    |

### St. Louis Iron Market.

Specially reported by ROGERS, BROWN & Co., Gay Building, 204 N. 3rd street, St. Louis. W. H. SHIELDS, Manager. St. Louis, Oct. 24, 1887.

A quiet but strong market fairly describes this week's transactions here. The actual business done has not been heavy, but the business done has not been heavy, but the enquiries have been numerous and of such a nature as to promise well for the near future. These enquiries are more for deliveries this year than for contracts running into 1888. There is still considerable difficulty experienced in getting iron forward on back orders. This market is suppled mainly from the South, where the makers of pig iron oversold their capacity more than in any other producing district. The foundries and mills are, as a rule, busy, and, failing to get promptly what is due them, make a considerable trade in picking up chance cars, which arrive on consignment to the several iron dealers. Southern charcoal iron has been in better request this week than last, which is probably owing to the narrow margin between coke and charcoal iron prices, as well as the greater relative abundance of the latter. We quote for cash f. o, b. St. Lonie:

| HOT-BLAST CHARCOAL.                |
|------------------------------------|
| Missouri \$00 75@01 75             |
| Southern 81 00@22 00               |
| COKE AND COAL.                     |
| Southern No. 1 20 50@21 75         |
| Southern No. s                     |
| Ohio Softeners az. 50@a3 00        |
| MILL TROMS.                        |
| Missouri 19 25@19 75               |
| Southern No. 1 18 50@19 50         |
| Southern No. s                     |
| CAR-WHEEL AND MALLEABLE IRON.      |
| Southern 84 00@87 00               |
| Lake Superior s4 00@s5 00          |
| SCRAP, AC.                         |
| Old rails                          |
| Old wheels                         |
| Connellsville Coke. (Frick's) 6 15 |
|                                    |

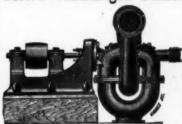
### Chattanooga Iron Market.

Specially reported by Lows & Tucken, Brokers and

CHATTANOOGA, TENN., Oct. 24, 1887. We have no change to note in the vol or character of the general business of the country. The country people are now a source of increased trade among all the retailers, and the jobbers are also feeling this influence to a considerable extent. Our manufactories are all working to their full capacities and are having no trouble to dispose of their output, but are embarrassed some by reason of insufficient transportation, some by reason of insufficient transportation. Pig iron continues in demand up to the fullest capacity of the producers, and prices are unchanged. The Southern foundries are continuing to show increased consumption, and this trade has now become a very important one to the Southern furnaces. We quote No. I Foundry at \$18.50@I9 00; No. I at \$17.50@I8.00. Considerable lots of old rails have changed hands at \$22.00@\$22.50 for common T's.

DIXON'S CRUCIBLES are the standard. The U. S. Government schedules always stipulate "Dixon's or their equal." In ordering your crucibles call for Dixon's and you will not be troubled with broken pots and wasted metals.

WEBBER'S Belted Centrifugal Pump.



g greater efficiency than any other Centrifugal Pump in the market. Send for catalogue.

### LAWRENCE MACHINE CO.

Mason Building, - - -. ROSTON, MASS.

New York Office, 17 CORTLANDT ST. AGENTS—J. Post, Jr. & Co., Boston, Mass.; Fairbanks & Co., St. Louis, Mo.; H. P. Gregory & Co., San Francisco. Cal.: R. H. Buchanan, Montreal. P.O.

TRETS THE EASTH AND MAKES THE MOON SPIN LIKE A TOP. MANUFACTURERS OF Our BELTING is tanned on the surfaces only; the INTERIOR is RAW HIDE. Send for Our Valuable Book for Engineers and Belt Users. Agents in all Cities. Send for Trial Belt.

Address SHULTS BRITING CO., St. Levels, Mo.

INCORPORATED.

CAPITAL, \$5,000,000.

MAIN OFFICE AND SALES DEPARTMENT. GIRARD NATIONAL BANK BUILDING. PHILADELPHIA.

NEW YORK OFFICE.

30 Broad Street.

MILLS AT THE POLLOWING PLACES :

NEW ORLEANS, LA. HOUSTON, TEXAS.
LITTLE ROCK, ARK. MEMPHIS, TENN.
ATLANTA, GA. SAVANNAH, GA.
COLUMBIA, S. C. MONTGOMERY, ALA.

NEW ORLEANS, LA. HOUSTON, TEXAS.
LITTLE ROCK, ARK.
NEW YORK, N. Y. PHILADELPHIA, PA.

ALL THE STANDARD GRADES OF-

### COTTON SEED OILS.

Crude, Summer White and Yellow, Winter White and Yellow, Butter Oil, Cooking Oil, and Miners' Oil.

White and Yellow Stearine. Soap Stock,

Cotton-Seed Cake and Meal.

Oil shipped in tank cars or in barrels.

Correspondence of buyers from all sections solicited to be addressed to the Philadelphia office.

All the mills of the SOUTHERN COTTON OIL COMPANY are entirely new, built upon the most improved plans, with the best possible mechanical appliances and facilities for handling product advantageously and economically.

HENRY C. BUTCHER, President.

### Light Your Dark Shops Cheaply!

### The New Electric Wall Torch. FOR COAL OIL OR NAPHTHA

These torches are guaranteed to be the best in the market, and the saly ones that will satisfactorily apprize coal oil and naphtha with-ut clogging up.

Produce a light equal to eight gas jets, at the cost of less than one penny per hour. They are used by the largest manufacturing establishments in the country, and we are prepared to furnish the highest testimonials.

#### PRICE \$2.00 EACH.

In ordering, state whether you sh a Gasoline or Coal-Oil burner scounts to the trade.

Reservoir made of the Best Cross Tin. Holds one gallon.



tured

The Standard Lighting Co., - Cleveland, Uhio.

# FOR SALE.

A weekly paper in good locality, with job office doing fine business, will be sold at a reasonable price. Material nearly new—none over three years old. Proprietor is getting old and wants to withdraw from business. Address

A. J. N.

CARE MANUFACTURERS' RECORD

# FOR SALE. Corliss Beam Engine,

Cylinder 28 inches, 72 inch stroke, balance wheel 18 feet diameter, with gear same size; was recently put in thorough repair, and is in A 1 order to-day. This is ONE opportunity in a thousand to buy a first-class engine at a great bargain, as the parties owning it have no use for it. It will bear the fullest investigation. Also a Corliss Horizontal Engine, 20x46, fly wheel 14 feet diameter, 25 inch face; has condenser and will develop 300 horse-power. Will be put in complete order and sold at a low price, as the concern has given up business. Also a Green Horizontal Automatic Engine, 90 horse power, 14x48, in complete order. The above are bargains, as they will be sold low.

### L. CODFREY & CO.

PROVIDENCE, R. I.

### FOR SALE.

No. 29 Bliss Prees, same as new.
No. 2 Garvin Miller, same as new.
Garvin Tapping Machine, same as new.
Polishing Machine, (Diamond), same as sew.
12-in. Double Table Shaping Machine, ne
12-in. Double Table Shaping Machine, ne
12-in. Shaper, Boynton & Plummer, new.
Planer, 244, second-hand.
Planer, 2440, Pond, new.
Planer, 2440, Pond, new.
Planer, 2445, Pond, new.
Planer, 2445, Pond, new.
No. 1 Garvin a Spindle Drill, good order.
25-in. B. G. S. F. Upright Drill, new.
25-in. Western Drill B. G. S. F. Western Drill, new.

s5-in.
y5-in.
y5-in.
so-in. Upright Drill, B. G. S. F.
43-in. Old-style Drill, B. G.
Engine Lathe, 38x16, new.
Engine Lathe, 58x16, new.
Gage Turret Lathe, complete with slide rest, and
as new.

Gage Turret Lathe, complete with slide rest, same as new.
Perkins' 16x6 Lathe, excellent order.
Gage Hand Lathe, excellent order.
Engine Lathe, slide, new.
Engine Lathe, slide, new.
Engine Lathe, slide, new.
Engine Lathe, slide, so in x 8 ft., compound rest, second-hand.

hand:

I Engine Lathe, 16 in. x 7 ft., second-hand.

Engine Lathe, 13 in. x 10 ft., new.

Engine Lathe, 13 in. x 6 ft., B. G. Screw-Cutting.

Engine Lathe, 15 x 6 ft., power cross-feed, new.

Engine Lathe, 16 x 8 ft., power cross-feed and compound rest, new.

Engine Lathe, so in. x 6 ft., power cross-feed and compound rest, new.

1 x1-in. x 3-ft. B. G. Hand Lathe, with Chucks, second hand.

hand.
An Electro-Plating Equipment.
Scientific Forge, Fairbanks'.
6-inch Double Cutting-Off Machine. Wood, Jennison & Co.
Patterson Forge with Hood No. 1.
Cold-Rolled Shafting, Hangers, Pulleys, &c.

L. W. Pond Machine Co, Planers. Currier & Snyder Drills. McMahon & Co. Lathes. Fay & Scott Engine Lathes.

### FRASER & ARCHER,

121 Chambers St., New York.

One No. 4 Sturtevant Blower, with consecond hand.

One No. 1 Keystone Forge; second hand.
One No. 0 Buffalo Forge, with water tank for power;

Two Boiler Feed Pumps, suction z inch, and dis-charge ry inch.

One Power Boiler Punch, second hand; punch 54 hole.

One Lawson Vertical Gas Engine, a horse power One Horizontal Steam Engine, a horse power; se hand.

hand.
One Vertical Steam Engine, 5 horse power; new.
One Vertical Steam Engine, 8 horse power; new.
One Vertical Steam Engine, 12 horse power; new.
One No. 6 Friedman Injector.
One Planer; second hand; 32 inch by 32 inch by 0, feet.
One Combined Engine and Boiler, 3 horse power;

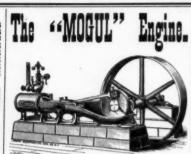
One 40 to 60 horse Automatic Engine; new. One 15 horse power Horizontal Engine and Bolles

new.
A complete Laundry Outfit; used 3 months.
One Blake Steam Pump, s-inch suction, 1%-inch discharge.
One Horizostal Tubular Boiler, 50 inches diameter x 16 feet, with 63-3 inch tubes; also 48-inch x 12 feet, with 54-3 inch tubes.

WM. C. CODD.

2010 and 2012 Aliceanna Street, BALTIMORE, MD.

| 3-4   |       |
|---|-------|
| Douglas Mfg. Codis solka  |       |
| Dission's   | 5 5   |
| Stanley Rule & Level Co s. Var. Hdisdis to<br>Stanley Rule & Level Co.'s Black Hdisdis 50<br>Ratchet  | 1     |
| Clark's Patent  | 1     |
| Bonney's  |       |
| SPOKE TRIMMERS.   Bonney's.   \$\frac{1}{2}\$ dos \$\frac{1}{2}\$ to, dis 50.    Stearms'   \$\frac{1}{2}\$ dos \$\frac{1}{2}\$ to, dis 50.    Stearms'   \$\frac{1}{2}\$ dos \$\frac{1}{2}\$ to, s, \$\frac{1}{2}\$ to \$\frac   |       |
|   |       |
| Wm. Rogers Manf. Co   | * * * |
| SCREWS.   |       |
| Standard new list, Feb. 13.     Flat Head Bright  | *     |
| Round Head Bright   | XXX   |
| Round Head Brass  | * * * |
| Japanned Flat Head  | XX    |
| Coach, Common or Lagdis 70  Bed   | * * * |
| Machine, Round Head, Irondis 50 Bench, Irondis 55&10  | *     |
| Beach, Wood, Beach  |       |
| Bed. dis sg Machine, Flat Head, Iron dis sg Machine, Round Head, Iron dis sg Machine, Round Head, Iron dis sg Bench, Iron dis sg&tro Bench, Wood, Beach & dos \$s.s., dis so Bench, Wood, Hickory dis so&tro Hand, Wood dis so&tro Hand Rail, Sargent's dis fo&tro Hand Rail, Humason, Beckley & Co.'s dis 40&tro Hand Rail, Am Screw Co, list Jan. 1, *8 dis 70 Jack (Wilson's) dis 25   | * * * |
| Jack (Wilson's)dis 75   | š     |
| Standard Window Screens No. 1, 4 doz \$4; 2, \$ "Door "No. 5, \$15; dis 50810; "Window Corner No. 80 dos \$4; 2, \$   | 5     |
| Door No. 6, dis solt to   | -     |
| "Door Latches, \$ dozen, \$3.60dis 50;<br>Porter's Patent Window and Door Screen Frames   | :     |
| Door Latenes, p. cosen, p.co  |       |
| No. so  | - 000 |
| No. 33  |       |
| Porter's Corners— No. o. Corners and Sticks complete for a  |       |
| No. z. Set for Window, & doz sets Bronsed,  |       |
| No. 1%. " % doz sets, Bronsed, \$7.50   |       |
| No. 36. " " or door, & doz sets,  |       |
| No. 4%. "Bronzed, \$1.00; Nickel, \$3.00 or Door, \$1.00; Nickel, \$4.00  |       |
| No. 2%. " Door, \$ dor sets, Bronsed, \$6.75; Nickel, \$15.00   | 1     |
| No. 3. " dos sets, Bronzed,<br>£12.00; Nickel, £4.00  <br>Roughton's Adius. Window and Door Screens. dis 25 \$  |       |
| No. 30  |       |
|   |       |
| American (Cast) Iron dia 70&10 \$ Pruning see Pruning Hooks and Shears Barnard's Lamp Trimmers \$ \$\frac{1}{2}\$ \$\text{dot}\$ |       |
| Massachusetts dis Sokro S Seymour's dis 60kro S Jersey Shears dis 50 S J. Wiss & Son, Nickle, 50k5 S; Japanned, 60kro S   |       |
|   | 1     |
| Sliding Door, M. W. & Co., Listdis 45% \$ Sliding Door, R. & E. list  | 1     |
| Sliding Door, Pt. Roller, Hatfield'sdis 60&10&2 \$ Sliding Door, Russell's Anti-Frictiondis 60&10&2 \$  | 1     |
| CHOUSES AND SPADES  | 1     |
| Ames, New List, November 1 1885 dis 20 % Griffiths dis 20 % Griffiths dis 20 % Remington's (Lowman's Patent) dis 20 % Rowland's dis 60 % Lippincott. new list dis 52 % Lippincott, new list dis 53 % Lippincott, new list dis 53 %  | ĺ     |
| Remington's (Lowman's Fatent)   |       |
| SILVER PLATED HOLLOW WARE.  | l     |
| Wm. Rogers Manf. Codis 50 \$ Meriden Brittania Codis 40 \$  | ı     |
| SOLDERING IRONS AND COFFERS.  Covert's Soldering Irons  |       |
| anouse.   | l     |
| Britannia. dis 60, 10&10 % Tinned. Iron, Table and Tea dis 65 % Tinned Iron Basting dis 30 % German Silver dis 40&5 %   |       |
| BTONE.  |       |
| Hindostan No. 1, 4C.; Axe, 5C   |       |
| Hindostan No. 1, 4c.; Aze, 5c   |       |
| SOULARIES.  |       |
| Steeldis 60&10 %; full cases, dis 70&10 %   |       |
|   | ı     |
| American Iron Carpet Tacks, all kinds751/6%10 %<br>Steel Carpet Tacks, all kinds  | 1     |
| Swedes Iron Carpet Tacks, all kinds, 70,5&10 \$ Swedes Iron Tacks   | l     |
| Tinned Swedes Iron Tacks  |       |
| American Iron Cut Tacks   |       |
| Copper Tacks  |       |
| Cigar Box Nails   |       |
| TACKS, SRADS, AC.  American Iron Carpet Tacks, all kinds  |       |
| Chair Nails 60&10 \$ Zinc Glaciers' Points 45&10 \$ Common and Patent strads  | 1     |
| Tinned Trunk and Clout Nails   60-50:0 5   Basket Nails   60-50:0 5   Chair Nails   60-50:0 5   Chair Nails   60-50:0 5   Sinc Glaciers' Points   43-50:0 5   Common and Fatent Brads   60-50:0 5   Tinned Capped Trunk Nails   50-50:0 5   Tinned Capped Trunk Nails   50-50:0 5   | •     |
|   |       |



Bearings extra long, compact, simple, strong, durable, and of

Superior Workmanship and Materials.

## The BEALL Engine, Boiler

AND MACHINE WORKS,

MERWIN MCKAIG. CUMBERLAND, MD. MANUFACTURERS OF

### The "MOGUL" Engines,

Pulleys, Shafting, Couplings, Collars, &c. Pulley Turning Machines, Pulley Boring Ma-chines, Shafting Lathes, Shafting Straighteners and Cylinder Boring Machines. Send for low price-lists and big discounts.



# WMILI

chinery. Style Gordon Job Press at

### OUR NEW SPECIMEN BOOK

JOHN G. MENGEL & CO.

# **NEW YORK**

FIRST AVENUE. 67th & 68th Streets, New York

Seventh Season Commences October 26, 1887.

Evening instruction in Plumbing, Bricklaying, Plastering, Stonecutting, House and Sign Painting, Fresco Painting, Woodcarving, Carpentry and Blacksmith's work. Terms moderate.

A three month's day course of instruction in PLUMBING and in HOUSE AND SIGN PAINTING commences December 1. Terms \$35 per each course. Good board can be had at \$5 per week.

Certificates issued to young men qualified to receive them by committees of Master Plumbers' Association and of Master Plumbers' Association at close of day and evening courses.

and evening courses.

The New York Trade Schools offer great advantages to ambitious young men. SEND POSTAL CARD FOR ILLUSTRATED CIRCULAR.

### Excelsior Patent Baking & Roasting Pan.



This is the only Seamless Pan with a lap joint ever invented. It roasts and bakes equally on all sides, cooks tough meat tender and saves watching and basting while cooking. Would like to arrange with good firms in all the principal cities to handle these Pans. H. RICHEY.
Sing Sing, New York, U.'S. A.



The DANGLER STOVE & MFG. CO CLEVELAND, OHIO

### RollerChainBelting



Detachable in every Link

ELEVATORS,

Conveyers,

DRIVING BELTS.

Coal, Ores, Grain, CLAY, BRICK, &c.

Roller Chain Belting Co.

Also Manufacturers of the Legg Coal Mining Machines and Rotary Power Coal Drill.

Bead & Illustrated Catalogue, R. SWORMSTEDT & OO. Agents, Baltimore.

### ICHOLSON AND

WATERMA

Providence, R. I.-

Manufacturers of Fine Machinery.

BERNHARD DIETZ Manufac Printers' Rollers, and Roller Composition. Factory, cor. Light and Mercer streets, Baltimore. Prices: Composition, (bulk) 30 cents per B.; for Casting, Also, 30 cents per Mail promptly attention to.

|     | 1  |
|-----|--|
|     | Leoking Glass Tacks  |
|     | Picture Frame Points   |
|     | Leathered Carpet Tacks45&10 \$   |
|     | Brush Tacks 45&10 \$   |
|     | WAR MORNING  |
|     | Common and Ringdis 20 \$\frac{1}{2}\$ Ives Tap Borers  |
|     | Ives' Tap Borersdis 15&10 \$   |
|     | Enterprise Mfg. Codis as \$  |
|     | TOBACCO CUTTERS.   |
|     |  |
|     | Enterprise Mfg. Co (Champion) dis 20&10 \$   |
|     | Wood Bottom & dos \$5.50   |
|     | 111 from 9 dos \$0.50, dis 4085 \$   |
|     | Wood Bottom. \$\P\$ dos \$5.50 17 From. \$\P\$ dos \$0.50, dis 4085 \$\P\$  **********************************   |
|     | TOTOMORPHON  |
|     | Tin Case   |
|     | Storm Classes  |
|     | Storm Glasses \$2.24 B dos.  |
|     | TOE CALKS.   |
|     | Winsted \$ D oc. dis 5 \$  |
| -   | Game, Newhouse   |
| e   | TRAPS.   |
|     | Game, Newhouse   |
| 5,  | Game, Oneida Patterndis fockioccio   |
| B   | Game, Blake's Patent   |
|     | Mouse, Wood, Choker doz holes, zoc   |
| n   | Mouse, Round Wire doz 11.50, dis 10 \$   |
|     | Mouse Cage, wire a dor \$2.50, dis 10 \$   |
| )   | Mouse, Catch-em-alive doz 32.50, dis 10 %  |
| r   | Cyclon Mouse w doz so cts.   |
| đ   | Dear Mode W dor \$1.00   |
| _   | Doss   |
|     | Rat, "Decoy" # dox \$10.00, dis 10 \$  |
| n   | Ideal Mouse, per dor   |
| f   | Idealpi3.50 th gross   |
| -   | TROWALS.   |
|     | Lothrops' Brick and Plasteringdis 30 %   |
| y   | Reed's Brick and Plastering  |
|     | Disston's Brick and Plastering dis appro   |
| r   | Reed's Brick and Plastering  |
|     | Worrall's Brick dis so   |
|     | Brades & Walby's dis en  |
| 0   | Crement & mayarat &   dis so 5   |
|     | Rose's Brick dis ve st   |
| - 1 | Handy Truck. \$2.50 net Penfield Block Co.'s list, 1889. dis 35 \$ Peerless, with Cogs, No. 3 5400 Peerless, with Cogs, No. 4 66 00 Eureks, No. 2 \$400 42 00                |
| :   | TRUCKS (WAREHOUSE, &C.)  |
| - 1 | Handy Truck  |
|     | Penfield Block Co.'s list, 1882dis 35 \$   |
| •   | Peerless, with Cogs, No. 35400   |
| - 1 | Peerless, with Cogs, No. 4   |
| - 1 | Eureka, No. 2 8 doz 42 00  |
| - 1 | VINES.   |
| - 1 | VISES.   |
| - 1 | Chency's Combined Yise and Anvil dis 30 \$ Solid Box—Wilson's dis 50&10  "Trenton dis 40&5 \$  "Iron City Tool Works dis 50&10 \$  Manneer Drill Mfg. Co's— Machinist': Vise |
| - 1 | Solid Box—Wilson'sdis 50&10 \$   |
| - 1 | Trentondis 40&5 \$   |
| - 1 | " Iron City Tool Worksdis 50&10 \$   |
|     | Manneer Drill Mfg. Co's-   |
| -   | Machinist's Vise   |
| - 1 | Bench- Wilson'sdis 45 \$   |
| П   | Trentondis 25 %  |
| н   | Parkersdis so \$   |
| 1   | Maschinist 7 vise  |
| - 1 | Bonney'sdis 35 \$  |
| -   | " Bonney's   |
| -   | Stephen s Patent Vises   |
| ۱   | WIRE,  |
| 1   | Press and Connex list of Jan as 188.   |
|     | Brass and Copper, list of Jan. 17, 1884dis 25 % Bright and Annealed  |
| 1   | Bright and Appealed Nes 166-2 die 6-   |
| ٠   | Bright and Annealed Nos and of die for   |
| :   | Connered Nos of a dis 6.   |
| 1   | Coppered   |

American Adjustable "5," list Jan., 1886
Baxter's Adjustable "5," list Jan., 1886
Baxter's Diagonai.
Coes' Genuise.
Coes' Teatern, Malleable.
Coes' Pattern, Malleable.
Girard Standard.
Girard Standard.
Girard Standard.
Collins' Wrenches. dis 45 \$
....dis 35 \$
....dis 40 \$
....dis 60 \$
....dis 6 Per dos.



#### POSITIVE BLAST. IRON REVOLVERS,

PERFECTLY BALANCED.

Has fewer parts than any other Blower. Also, Blacksmith Blowers, Portable Forges, Tuyers Irons, and Gas Exhausters.

P. H. & F. M. ROOTS, Manufacturers, CONNERSVILLE, IND.

Send for Priced Catalogue.

No. 7 CANAL STREET.

MANUFACTURERS OF

GLOBE

"STANDING SEAM" IRON ROOFING.

V-Crimped

IRON ROOFING.

READY-ROLL

CAPPED ROOFING.



### Corrugated Iron,

All Desired Gauges and

Painted,

Calamined,

Galvanused.

Send for our descriptive and illustrated catalogue.

PRICES and ESTIMATES

### CRIMPED & CORRUGATED CEILING SHINGLES G.HYNDMAN & CO CINCINNATI.



ROOFING,



CANTON IRON ROOFING CO., CANTON, OHIO, SUCCESSORS TO T. C. SHYDER & CO., MANUFACTURERS OF

ROOFING heaper than Shin-es. Fire and light-ng proof. Made best refined

iron. Send for Catalogue, Price List and Sampl

Corrugated Iron Roofing and Siding, Beaded Iron Ceiling and Siding, Crimped Edge Roofing and Siding, Roof Paint, Roofer's Paper, &c.



### GARRY IRON ROOFING COMPANY.

Largest manufacturerers o Iron Roofing in the world.

ers of all binds of IRON ROOFING, imped and Corregated Sidin Iron Tile or Shingle, e-Freef Doors, Shutters,



ON ORE PAINT AND CEMENT.

152-158 Merwin Street

CLEVELAND, O.

nd for Circular and Price List No. 90.



And VENTILATORS for Mills, Stores and Dwellings. Galvanised Iron and Copper Cornices and Gutters. Metal Shingles. Sheet Metal Work for buildings. Send for illustrated circular. E. VAN NOORDEN & CO. 383 Harrison Avenue, - BOSTON.

ORD STEAMBO MARTFORD TOVAND INSUR

Issues Policies of Insurance after Careful Inspection of the Boilers, covering Loss or damage to property, and Loss of Life and Personal Injury

-ARISING FROM STEAM BOILER EXPLOSIONS.-

Full information concerning the plan of the Company's operations can be obtained at the COMPANY'S OFFICE, Hartford, Conn., or at any agency.

W. B. FRANKLIN, Vice-Prest.

J. B. PIERCE, Secty.

BOARD OF DIRECTORS:

BJ. HENDER, President Eins, Fire Insurance Co.
(JENNEY, Mar. Treas. Chency Bros. Bilk Mfg. Co.
LES M. BEACH, of Adams Express Co.
H. JARVIR, Pres't Colve Fire Arms Mag. Co.
AS O, KEDERS, Scorelary, Estan Life Insurance Co.
H. JARVIR, Pres't Colve Fire Arms Mg. Co.
AS O, KEDERS, Scorelary, Estan Life Insurance Co.
RETT BRAINARD, of Case, Lec'evo of the Insurance Co.
RETT BRAINARD, attorney-4-Law, Hartford.

Eridgeport, Conn.

LAWFORD & McKIM, Agents for Maryland, 22 Second St., Baltimore, Md.

THE OLDEST. THE LARGEST.

PORTER IRON ROOFING CO. CINCINNATI





## Cambridge Roofing Company,

CROWL'S PATENT STANDING SEAM,

Plain Rolled, Corrugated and Crimped Edge, Roofing, Siding and Ceiling. Made of Steel and Charcoal Iron; awarded first medal by the New Orleans Exposition.

: OHIO.

CAMBRIDGE, -



Send for Circular and Price List, and mention this Paper.

Women's Mutual Insurance of

OFFICERS AND
RITEABETH B. PHELPS, Pros.
MARGARET HOLCOMER, Pros.
Elizabeth S. Roberts, H. Louise Gates,



# and ACCIDENT COMPANY.

DIRECTORS: RLIEABETH HARDENBURGE, Tree CORNELIA KAMPING, Actory,

ALFRED K. HILLS, W. D., 405 Firth Avenue.

JOHN A. KAMPING, Attorney and Counsel, 138 Broadway, New York.

Incorporated under the Laws of New York.

JOHN HUIR, Genera Traffic Man

means of which impossible results are promised. The elected are plain, easily fulfilled and liberal. It issues following corns: ,'s end of \$10,000.

1. Ordinary Accident Policy, \$100 to \$10,000.

2. Ordinary Accident Policy, \$5,000 death index nity; \$25 weekly.

3. Combined Life and Accident Policy.

4. \$500 Savings Bond.

BANK OF THE METROPOLIS, New York City.

PARMERS TOAM AND TRUET OO, New York City.

PARMERS TOAM AND TRUET OO, New York City.

The officers would be plassed to furnish any furth-tioniars which may be desired in relation to the Cum-dent of the Company of the Company of the Cum-Agestia are desired in every city, village and d throughout the healthful sections of the country. Address all communications to the

Solid Trains from Washington.

LEAVE WASHINGTON, B. & P. STATION:

11.20 A. M. Virginia Springs Express for Rockbridge, Alum, Warm, Hot, White Sulphur and other Springs Recorts of the Alloghanies.

5.30 P. M. Louisville and Cincinnati Express. Pullman Cars and a Solid train to Louisville and Cincinnati, making all Western and Southwestern connections.

Washington Ticket Office,

513 Pennsylvania Avenue,

### SHAFTING DEPARTMENT EDISON MACHINE WORKS.



19 DEY STREET, N. Y.

Shafting, Pulleys, Hangers,

Couplings, &c.
Vrite for Illustrated Price List with Dis

Machine Molded Pulley Castings for Sale Low.

### Roller Chain Belting Co., Columbus, O.

ELEVATORS, CONVEYERS, DRIVING BELTS, for Handling



R. SWORMSTEDT & CO., Agents,



tes Elevator 1876 S

JAMES BATES, Patentee, Nos. 1 3 & 5 President Street. BALTIMORE.

NOVELTY WORKS. 1837.

JAMES MURRAY & SON.

es and Boilers, Mills of all kinds, Marine s, &c. Improved Clay Tempering Ma-Steam or Horse Power. Phosphate rry, Crushers, Bollers, Mixers, &c., &c.

O, 42 & 44 York Street, NEAR LIGHT, BALTIMORE.

Repairing of all kinds promptly done.

### Norwalk Machine Works,

Also, Steam Engines

3 to 50 H. P. Hoisting, Stone Sawing, Planing and Turning

MACHINERY. Write for Prices.

Office and Works: NORWALK. Ohio



STRAUB MACHINERY CO., Cincinnati, O.

\$250 SINGLE. \$350 DOUBLE. With Saws and

15 horse portable engineers. Send for des BOCK WOOD, NEWCOMB & CO. 180 to 190 S. Pennsylvania St., Indianapolis, Ind.

### McShane & Bell & Foundry

ss Castings Made to Order.



Manufacture those celebra-ted Bells for Tower Clocks, Court-Houses, Cotton Mills, Facto-ries, &c. Prices and cata-logues sent free. Address H. McSHANE & CO.

Baltimore, Md.

SHEPARD'S NEW \$80 REW-CUTTING FOOT LATER Foot and Power Lathes, Drill Presses, Scroll-saw Attachments, Chucks, Mandrels, Twist Drills, Dogs, Calipers, etc.
Lathes on trial. Lathes on payment.
Send for catalogue of out.
H. SHEPARD, Agent, 130 E. Second St., Cinn., O.

# EHL, HAUSER & CO.

### Leather Belting,

Girard, Trumbull Co., Ohio.

SPECIALTIES—Harness, Black and Fair Brids, Line Leather, Saddle and Shoe Skirting, Russett and Stained Reins Welt, Fly-Net and Collar Leather, upperior HarnessBacks, Pump Valve Leather. Write or prices. Mention this Paper.

FORTRESS MONROE, NORFOLK and the SOUTH.

The Bay Line comprises the New and Elegant Steam

"VIRGINIA," "CAROLINA" and "FLORIDA." "VIRGINIA," "CAROLINA" and "FLORIDA."
All the Comforts and Luxuries of a FirstClass Hotel are afforded the Traveler. Spacious
and Elegant Saloons and Staterooms, furnished
with an especial view to comfort. Unsurpassed Cuisine, which is made a specialty with this
Line. Elegant service and courteous attention.
Steamers leave Baltimore daily except Sundays
at 9 P. M.
At Old Point Comfort is located the SPLENDID HYGEIA HOTEL, a Delightful Resort
at all Seasons of the Year. For Tickets and
Information, apply at Company's office,

157 W. BALTIMORE ST., BALTIMORE, Or on Board of Steamers. Or on Board of Steamers.
D. J. HILL Superintendent.
L. BROWN, General Ticket Agent.

### E. HARRINGTON, SON & CO.

Works and Office. N. 15 St. & Penna. Ave., Phila., Pa.



Gap Lathes. Planers with &c., Hand Power Elevators bouble Chain Screw Hoists, rith Switch, Turntable and G Cutting a Specialty. Smd for Retimates

Very Best in 2 others. Market.

### AMERICAN INJECTOR COMPANY

Detroit, Mich., U.S.A.

### WIRE RAILING

and Ornamental Wire Works. DUFUR & CO. 36 N. Howard St., Baltimore

Wire Railing for Cemeteries, Lawns, Gardens, Offi-ces and Balconies; Window Guards, Tree Guards, Wire Cloth, Sieves, Fenders, Cages, Sand and Cos' Screens. Iron Bedsteads. Chairs. &c

### THE BRADSTREET

Under its present successful management for the past seven years.

And during that time its business as more than trebled, while its facilities have proportionately increased.

No expense is considered too great in obtaining and applying to the conduct of the business all possible improvements. With its present system for obtaining and promulgating information, this Agency is justiy regarded by its patrons as authority on all matters affecting commercial credit. Its ramifications are greater and its business larger than any similar organization in the world conducted in one interest and under one management.

You are respectfully invited to investigate, and if in need of an Agency, to test its ability to serve you.

CHAS. F. CLARK, President.

CHAS. F. CLARK, President. Baltimore Office,—American Building, H. KERSHAW, Supt.

FOR SALE.

One 50-ton Zero Ice Machine at half-price
Correspondence solicited.

R P. GERLACH. Box 110. Cleveland. Ohio.

HUGH SISSON & SONS,

210 E. Baltimore St., bet. North & Calvert Sts., BALTIMORE

## Marble Monuments

Tombs, Altars, Counters, Furniture Slabs, Mantels, Tiles. Estimates and Drawings Free.

**PHILADELPHIA** 

OR HAND PUMP LIST is wanted.

OF EITHER UPON APPLICATION.

EVERY

Z

PUMPS

HAND

ALSO

POSSIBL

EVERY

PUMPS

Street,

Third

South

245

243

MAUL

ø

PANCOAST



FIRE PUMP.







DUPLEX PUMP.



VACUUM PUMP.

Mention this Paper when you Address :

### TAPER-SLEEVE PULLEY WORKS.

Se. 21 W. 12th S ERIE, PA. Clutch Palley

### CHENEY & HEWLETT, Architectural Iron Works.

Wrought and Cast Iron Work for Building Purpose N. CHENEY. C. HEWLETT.

OFFICE: 201 BROADWAY, NEW YORK.

Book giving strength of wrought-iron girders, eams and cast-iron columns mailed on application.

### PORTLAND CEMENT.

German and English Brands of Best Quality.

Send for tests and all particulars to ERSKINE W. FISHER

Charlotte.

BUILDERS OF

ENGINES and BOILERS. STAMP MILLS. CRUSHERS.

Circular Saw and Grist Mills.

CORNISH PUMPS.

### MACHINERY. MINING

Cotton Presses, Water Wheels, Shafting and General Machinery.

JOHN WILKES, Manager.

Diamond Pointed Rock Drills,

STEAM ENGINES and BOILERS,

FOR MINES, BLAST FURNACES, DOCKS, Brc.

STRAIGHT LINE ENGINES.

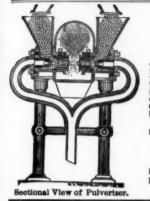
Address,

CHICAGO, U. S. A.

M. C. BULLOCK MFG. CO.

-A LONG FELT WANT SUPPLIED .-

Address VULCAN IRON WORKS, Toledo, Ohio.



TWO POWERFUL OPPOSING CURRENTS

of dry super-hesiss steam, so arranged that they continuously charge themselves with crushed or granulate material, and by the great force and vslocity of the steam currents the minerals are dashed against each othe with such power of concussion as to cause the hardest ores to be pulverized to sup degree of stances desired. The high temperature of the super-hesists steam currents employed, through which every minute particle of on must pass, causes them to become very hot and dry, which produces a beneficial effect upon Suphurets and or containing rusty Gold. The light weight and simplicity of construction of the Pulverizer, the extremely sma and inexpensive usering parts are the WONDEK and SURPRISE of all who wissess its operation. The Company are prepared to furnish complete plants for pulverizing.

10 to 200 Tone For Day, including a Sectional Steam Boller supplying all the power required.

PNEUMATIC PULVERIZER COMPANY.

2 and 4 Stone Street, New York.

WRITE FOR PARTICULARS.



### ARCTIC ICE MACHINE MFG. CO.

Works, 4, 6, 8 & 10 West Street, Cleveland, O.

# WISWELL

OMBINED.



The following testi-monial from Mr. Marsden, of the firm of Farrel & Marsden, manufacturers of stone-breakers & ore-crushers, Ansonia, Conn caks volumes for the Wiswell Mill:

Winnell Electric Mining

Machinery Co.:

MACHINEN: After carefully inspecting your
mill and seeing it in
operation, I do not heal tate to say that it is on :
of the best, if not the

For DITCHING, EXCAVATING Loading Wagons

50 TO 100 PER CENT. SAVED IN LABOR.



For further information address

WISWELL

Electric Mining Machinery Company,

A. A. REEVE, Treas,

4 Post-Office Square, Boston, Mass.

DELIVERED ON BOARD CARS.

# FROM 1-4 to 15,000 lbs. WEIGHT. True to pattern, sound, solid, free from blow-holes, and unequaled strength.

CHESTER STEEL CASTINGS CO. Office. 407 Library Street, Philadelphia.

Works, Chester Pa

# Winding Engines, Furnace Hoists,

Mine Hoists.

Mining Plants," Concentrating Works, and Dredging Machinery Furnished Complete.

OPELAND & DACON

85 Liberty Street, New York. 309 Arch Street, Philada.





# THE IMPROVED FLORIDA

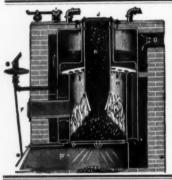
3500 in ACTUAL USE,

PIERCE, BUTLER & PIERCE MFG. CO.,
DIE MANUFACTURERS. SYRACUSE, N.Y.
CHERAL GEO. B. COBB. 57 WIlliam M. New York. Y.
CHERAL GEO. B. COBB. 57 WIlliam M. New York. Y.
CHERAL GEO. B. COBB. 57 WILLIAM M. New YORK. Y.
O. D. ELAND MFG. CO., St. Louis, Mc. GENERAL (



The Red Jacket Fine Blower.





### THE DUNNING Patent Wrought-Iron Boiler, With Self-Feeding Coal Magazine, IS THE BEST FOR

### OW PRESSURE STEAM HEATING

Insures a Warm House Day and Night.

Over 13,000 in use! Keeps Steam up Constantly. Also, Engines & Boilers of all & Machinery generally

MANUPACTURED AT THE New York Central Iron Works, 77 Exchange St., Geneva, N.Y. Send for Illus. Catalogue with full description and price-list. AGENTS WANTED. N. B.—Correspondence solicited from Architects and persons building.

### WEITMYER PATENT FURNACE



Address FOUNDRY AND MACHINE DEPARTMENT, Harrisburg, Pa.

### CLEVELAND FLUE-CLEANER MANUFACTURING CO.



46 Power Blook CLEVELAND

STANDARD SUGAR REFINERY, BOSTON, February 8, 1887.

Mason Regulator Co., Boston. Gentlemen—Answering your inquiry regarding the reducing valve, I would say that it is working very nicely. We are reducing from 65 to 10 pounds per square inch, and the desired pressure is maintained very evenly. Although we have had the valve in use but little over a month, I see no reason why it should not continue giving the satisfaction it does at present. I like it much better than any valve we have before used for this purpose.

Yours truly,

J. H. Webster, Supt.

### POWER!

Prevent your Belts from Slipping by using



No Rivets; can be put on by any one. Satisfaction Guaranteed. Send for Circulars with Prices.

The National Pulley Covering Company, BOWLY'S WHARF and WOOD ST., - BALTIMORE, MD.

# St. James Hotel

Cor. Charles and Centre Streets. BALTIMORE, MD. Near the Washington Monument.

ON THE EUROPEAN PLAN.

Strictly First-Class. Rooms Single and En Suite.

FINEST CAFÉ IN BALTIMORE.

The St. James Hotel has the pleasantest situation, amid beautiful surroundings, and is patronized by the better class of travelers. The hotel is now under a new management, and has been refitted and improved in every way. Secure rooms in advance by addressing JOHN D. CROWTHER, Manager.

ANNISTON, ALABAMA.



HE INN is the most quiet, elegant and home-like place in the world. Its location Anniston, "The Model City of the South," a thousand feet above the Gulf, with pure health-restoring water, within easy distance of New Orleans, Mobile, Montgomery, Sel Atlanta, Macon, Columbus, Ga., Rome, Chattancoga, Knoxville and Nashville, make unequalled as a great summer resort for Northern as well as for Southern people. Surrounde every direction for fifty miles with forests of Georgia pine: a country thoroughly drained; swamps or malaria, and in the very heart of the great mineral belt of North Alabama, Geoi and East Tennessee: on the line of travel from Washington to New Orleans; from Cincinn St. Louis and Louisville to all points on the Gulf; accessible by palace cars from any point the United States, Anniston presents to the invalid, the pleasure seeker or the explore delightful summer climate, pure, fresh and bracing air, the best water and most charm scenery, and a point from which every city in the South, and the great mineral and timbelts, can be reached. This Inn is magnificently furnished, lighted by electricity through the entire building, and in every feature is sure to charm those who are so fortunate as to a there. For full particulars as to prices, rooms, &c., address

H. HARDELL, Manager.

# akeviem

LAKEVIEW PARK.

NEAR

BIRMINGHAM, ALA.

ELY SPENCER, MANAGER.

### ALTITUDE OF HOTEL, 150 FEET ABOVE CITY.

Hotel and Furniture Entirely New. House Supplied Throughout with Pure Spring Water by an Independent System of Water Works. Electric Lights, Electric Bells and All Modern Conveniences.

### ACCOMMODATIONS FIRST-CLASS IN EVERY PARTICULAR.

Steam Motor Trains on Highland Avenue Railroad leave 19th Street and 1st Avenue, within Half Block of Union Passenger Depot, for Lakeview Park, every Fifteen Minutes.

Concerts Every Afternoon and Evening by the Hotel Band.

### DAVID BOYLE. -

521 W. MONROE STREET, · · CHICAGO, ILL.

PATENTEE AND BUILDER OF THE

REFRIGERATING

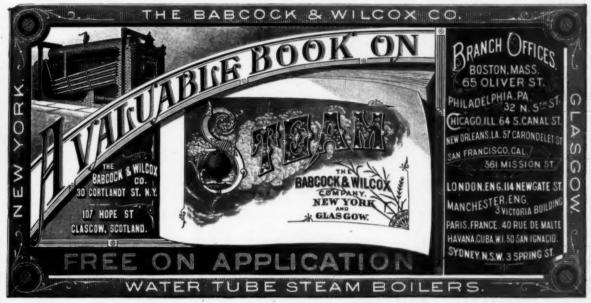
The Most Simple, eliable, Durable and Economical in Existence.

WHAT PEOPLE SAY.

"I consider it the greatest improvement that has ever been made in breweries."—Fred. Pabet, President Ph. Best. Brewing Co. "We are thoroughly satisfied with your machine, and we believe it is superior to any other in the market to-day."—Henry G. Kuhrt, President Atlanta City Brewing Co., Atlanta, Ga.

Estimates for Ice or Refrigerating Machines furnished on application.

Refer to over 125 Machines in successful operation.



### BABCOCK & WILCOX **BOILERS**

THE-

\*\* SOUTH \*\*

Made of Steel, Double Bolted, Double Collared and Extra Strong Couplings. SPECIALLY ADAPTED TO USE IN HANDLING COTTON SEED AND ALL ITS PRODUCTS, FERTILIZERS AND PHOSPHATES.



Dealer in Mill and Grain Elevator Supplies.

Can Ship from Pittsburgh or Chicago.



WHIS BUCKET is of

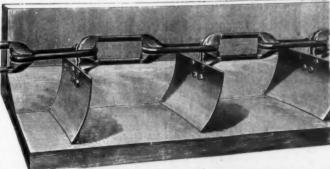
131 and 133 West Washington Street,

Elevating and Conveying MACHINERY.

EMPLOYING EWART CHAIN. 0

w catalogue, containing all the latest improve-ments in Elevators and Conveyors.

The accompanying cut shows a section of one of our long Conveyors having a large capacity. The chain employed is "Dodge Chain." The flights are concaved in both surface dimensions.



We have conveyors employing this chain in successful operation 800 feet long, having a capacity from 1 to 4 tons per minute.

For Coal, Phosphate, Tan, Ore, Stone, &c.

BURR & DODGE.

39 S. Holliday Street,

BALTIMORE, MD. 293 and 295 N. 5th Street, Philadelphia, Pa.

Link Beit Machinery Co., Chicago, Ill.

### MANUFACTURERS" RECORD>>><

is the most thorough, complete and authentic source of information on Southern industrial affairs in existence. The subscription price is only \$3.00 a year. Some of our subscribers think every issue is worth that much. Try it for a year Send in your subscription to-day. Don't wait until to-morrow; you may forget it.

ıd

te.

ngs,

s in

ma, e it d in no rgia ati, t in er a ting ber

9

## Brick Makers' Supplies.



An easy-working, quick-operating and powerful press. Will successfully press brick made on any Brick or Tile Machine.

The Wrought-Iron Tempering Wheel,

The most thorough mud temperer known. Tempers faster, mixes better and runs lighter than any wheel

Barrows, Trucks, Molds, Kiln Doors, &c.

W. RAYMOND & CO.

DAYTON, O.

### The Spiral Pug Mill

### QUAKER BRICK MACHINE.

Capacity 40,000 Perfect Brick Per Day Great Saving in Labor and Expense

tract to furnish complete Brick-yard outfits,—Engines ything needed complete. Write for our handsomely catalogue, containing valuable information. Estimates Correspondence solicited. Address

## FLETCHER & THOMAS, Indianapolis, Ind



Lightning Well Sinking Machinery.

The Largest Manufacturers of Well Sinking and Prospecting Tools.

have sunk 500 feet in 10 hours with the revolving process, 100 feet in 40 minutes by the jetting process, and 196 feet in 10 hours without removing the tools from the well by the hydraulic process. We have averaged I foot in 10 minutes, to a depth of 650 feet, with our diamond-pointed rock drills.

We issue an encyclopedia of well-sinking apple

The American Well Works,



938 to 954 River Street, and 67 to 83 Vail Avenue,



Also Fire Hydrants, Yard and Wash Hydrants, Check and Foot Valves

## INYULCANIZED PACKING



Called the Standard,

AS it is THE PACKING BY WHICH ALL OTHERS ARE COMPARED

Accept no packing as JENKINS' PACKING ss stamped with our "Trade Mark."

JENKINS BROS.

69 John St., N. Y. 105 Milk St., Boston. 13 S. Fourth St., Phila.

### Castings of every Description made.

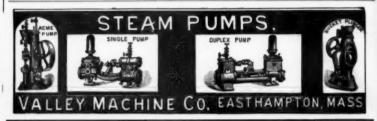
JNO. N. MARQUETTE, 118 W. Falls Ave., { BALTIMORE, MD



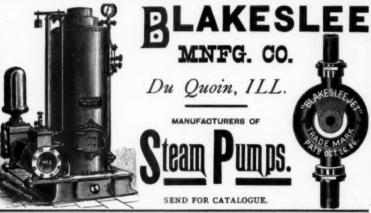
WHY THIS IS PUT HERE!
satisful water or other
mp power, we wish to
NEW PULSOMETER, Haulds by steam power, we wish to
THE GREAPEST AND REST STEAM PUMP IN THE MARKET. PRIGES LOWER THAN ANY OTHER.
More Efficient, Simple, Durable, and more Economical, both as to running expenses and repairs, than any other Steam Pump.
For Mining, Rallroad or Steamboat use, Paper Mill, Chemical or Gas Works, Tannery, Brewery or Sugar Befineries, Draining Quarries, Cellars or Plantations, Irrigating or Hydraille Mining.

Call or write for our new 96 page Illustrated Descriptive Book containing Pull Particulars, Beduced Net Prices, and hundreds of A-1 Testimonials. Malled Froe.

Pulsometer Steam Pump Co., 83 John Street, N. Y.







For the BEST and CHEAPEST FIRST-CLASS

### FOR ANY STEAM PUMPS

RUGHES BROS. Steam Pump Works, Cleveland, Ohio. | DONEGAN & SWIFT.



mps and Hydraulic Machinery 12-23 Ovid Street, Seneca Falls, N. Y. 60 Barclay Street, New York.

### Hawes Steam

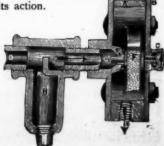
This Trap is automatic in its action. saves one-third in fuel.

It ensures absolute circulation. It entirely prevents all snapping in the pipes.

There are 50,000 in use in the United States.

All Traps are guaranteed where directions are followed. Correspondence solicited.

GEO MAWES & SONS, 23 & 25 Dyer Street, PROVIDENCE, R. I.



# KNOWLES STEAM PUMP WORKS,

# Single and Duplex Steam and Power Pumping Machinery

113 FEDERAL ST.

BOSTON.

93 LIBERTY ST.

NEW YORK.



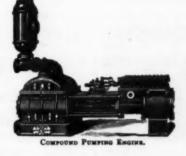


SEND FOR

ILLUSTRATED

CATALOGUE,

Price-Lists.







-ON-APPLICATION

ESTIMATES

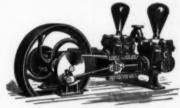
FURNISHED

CORRESPONDENCE

SOLICITED.











BOILER FEEDING REFINERIES BREWERIES, NNERIES. IRRIGATING IRE PURPOSES FILLING TANKS.

FOOT OF EAST 23D STREET.

Philadelphia



The A. S. Cameron Steam Pump Works,

COMPACT.

NO OUTSIDE



NEW YORK. PISTON PATTERN

SOUTHERN SELLING AGENTS CROOK, HORNER & CO. Baltimore, Md.

SHAW & DAVIN Birmingham, Ala.

MECKLENBURG IBON WORKS Charlotte, N. C.

VALE & MURDOCH Charleston, S. C. E. V. WHITE & CO. Norfolk, Va.

Boston

# Worthington

HENRY R. WORTHINGTON

NEW YORK

Chicago

St. Louis

#### SOUTHERN SELLING AGENTS

M. SCHWARTZ New Orleans, La.

ATLANTA ENGINEERING CO. Atlanta, Ga.

KENTUCKY MACHINERY CO. Louisville, Ky.

> W. H. PERRY Nashville, Tenn.

LIVERMORE FOUNDRY & MACH. CO. Memphis, Tenn.

San Francisco

COMPLETE STEAM PUMP ONLY SEVEN DOLLARS VANDUZEN & TIFT





Wood Split Pulleys.

MILBURN

Gin & Machine Co.

MEMPHIS, TENN., U. S. A.

STEAM ENGINES, BOILERS,

Cotton Gins, Gin Feeders and Condensers,
And the Celebrated "MILBURN" Wood Split Pulley, with Bushing System.

The best and lightest Pulley made. Every one guaranteed. Send for catalogue, testimonials and price-lists. We have the largest works of the kind in the world. Will send one of our Wood Split Pulleys





to any responsible party, for thirty days' trial, free of charge, if it fails to meet our warranty.

Milburn Gin & Machine Co.

Send for Illustrated Circular and Price-List.

E. C. ATKINS & CO. INDIANAPOLIS, IND. MANUFACTURERS OF MEMPHIS, TENN.

Circular, Cross-Cut Band Saws.

E E ATRINS & CO

HAVE YOU A BAND MILL

Or Are You Going to Erect One?

OUR BAND SAWS

Are winning the favor of Lumber Manufacturers for their excellent and uniform temper and for the quality of Steel

we use in their manufacture.

WRITE FOR PRICES.

PPECIAL STEEL AND TEMPER

Use only the best Cross-Cuts. Our Cross-Cuts are acknowledged as sncomparably the best in use We are agents for Tanite Emery Wheels and Grinding Machinery.

A. WYCKOFF & SON, ELMIRA, N. Y.

WOOD WATER PIPE



Coal and fron Mines, COKE WORKS ESTABLISHED

General Water SUPPLY.

CATALOGUES AND
PRICES.

Patent Needle Pointed

CARD CLOTHING,

For COTTON and WOOLEN MILLS.

T. K. EARLE MFG. CO. WORCESTER, MASS.

# Stokes & Parrish Machine Co.

\*\*\*\*\*\*\*\*\*\*\*

PASSENGER

AND

FREIGHT,

HYDRAULIC,

STEAM

AND

BELT

POWER.

00000000000000



00000000000000

HOISTING MACHINERY

FOR

MINES,

BLAST

FURNACES,

INCLINED

PLANES,

AND

DOCK USE.

000000000000

# ELEVATORS

SAFETY, SPEED AND ECONOMY.

WORKS AND OFFICE:

30th and Chestnut Sts.,

BRANCH OFFICE:

95 & 97 Liberty Street;

## A. HOEN & CO.

LITHOGRAPHERS, BALTIMORE MD.

Our facilities for the production.

ARTISTIC

Color Work

AND ALL STYLES OF

Fine Commercial Engraving

Are Unsurpassed.

and personal supervision at prices consistent with first-class productions. Sole proprietors of the OELEBRATED

LITHOCAUSTIO PROCESS
Branch Establishment:

TANITE

EMERY WHEELS AND
CRINDING MACHINES

For Saw-Mills
Foundries, and
Machine Shops.
For circulars, address
THE TANITE CO
Stroudsburg,
Monroe Co., Pa.

MORTON, REED & CO.

BALTIMORE, MD



